

# PaperCut MF – Fujifilm BI AIP 7+ Embedded Manual

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# 1 Document revision history

Published date or release	Details of changes made
<b>2022-01-18</b>	Added information regarding SSD requirement on Print only devices
<b>22.0.6</b>	Added instructions for setting up compatible Fuji Xerox devices
<b>22.0.5</b>	New Fujifilm BI AIP 7+ Guide based on Fujifilm Business Guide

## 2 Installation

### 2.1 Supported devices

This manual applies to devices that are listed as supported models on the [PaperCut MF for Fujifilm Business Innovation](#) page. Additionally this manual applies to devices that are listed as supported on the [PaperCut MF for Fuji-Xerox](#) page with AIP 7 compatible firmware from PaperCut MF 22.0.6 onwards.

For devices utilizing the PaperCut MF **Fujifilm BI AIP 7+ (Printer only)** device type, those devices must be equipped with a SSD (Solid State Drive) in order to run PaperCut MF, as from the factory these devices often do not ship with a SSD.

### 2.2 System requirements

Ensure the system meets the following system requirements:

- The following entities must be 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 must be installed and running on the network. For more information, see the [PaperCut MF manual](#).  
**Note:** The minimum compatible version is 22.0.5.
- The networking/firewall configuration must allow inbound connections to the PaperCut MF Application Server from the devices on the configured ports. For example:
  - 9191 (TCP/HTTP)
  - 9192 (SSL/TLS/HTTPS)

### 2.3 Summary of the setup procedure

**NOTE:** If installing the Fujifilm BI AIP 7+ integration on a Fuji Xerox device from PaperCut MF 22.0.6 onwards, with AIP 7 compatible firmware, replace sections 2.3.3 – 2.3.6 with the instructions in [Section 8 Appendix A – Fuji Xerox Device Preparation](#).

To integrate the embedded software with the device:

- [2.3.1 Log in to the device's web interface as an administrator](#)
- [2.3.2 Uninstall previous versions of the embedded software](#)
- [2.3.3 Configure the device's security certificate settings](#)
- [2.3.4 Enable](#)
- [2.3.5 Configure the device's user access permission settings](#)
- [2.3.6 Configure the device's accounting and billing settings](#)
- [2.3.7 Install PaperCut MF](#)

- [2.3.7.1 Install PaperCut MF on multiple devices](#)
- [2.3.7.2 Install PaperCut MF on each device](#)

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

To log in to the device's web interface as an administrator:

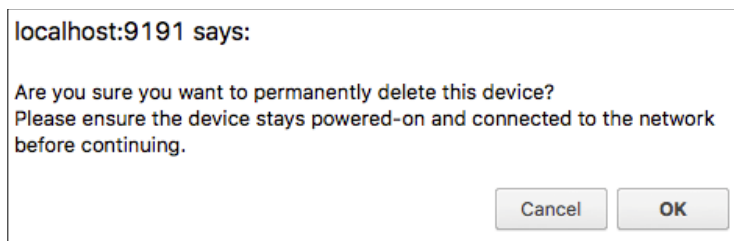
1. Open a web browser and enter the device's IP address in the address bar.
2. Log in using the default Administrator ID and Password.  
If the default ID and Password have not been set, refer to the device's User Manual.

### 2.3.2 Uninstall previous versions of the embedded software

If PaperCut's embedded software solution *PaperCut MF - Fujifilm BI AIP 7+* or *PaperCut MF - Fujifilm Business* is already installed, you need to uninstall it before installing *PaperCut MF - Fujifilm BI AIP 7+*.

To uninstall the previous version:

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



7. Click **Devices**; then verify that the device is no longer listed (*PaperCut MF - Fujifilm BI AIP 7+/Business* is permanently uninstalled).
8. Access the device home screen and confirm that the PaperCut icon is not present.

### 2.3.3 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 **System > Security > Certificate Settings**.
3. Click **Create > Generate Self-Signed Certificate**.
4. On the Creation page, leave the default settings as is and click **Start**.
5. On Success, click **Close**.

### 2.3.4 Enable add-on apps

To enable add-ons, configure the device's custom services settings:

1. Log in to the device's web interface as an administrator.
2. Navigate to **Apps > Enable Add-on Apps**.
3. Set to **Enable** by clicking the Enable toggle to blue, then click **Save**.
4. Click **Close**.

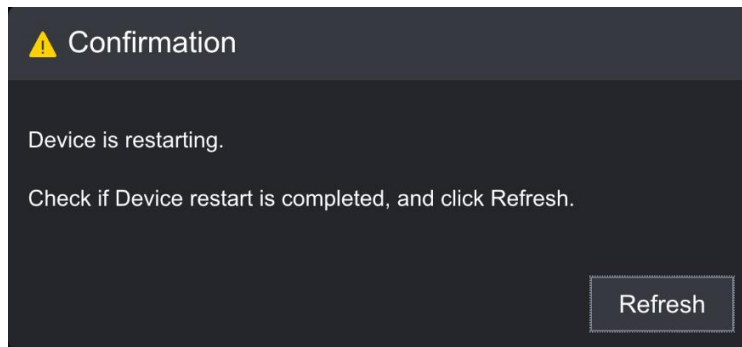
### 2.3.5 Configure the device's user access permission settings

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 **Permissions > Authentication and Accounting > Authentication/Accounting Type**.
3. Set **Authentication/Accounting Type** to **Network** and click **Save**.
4. The **Network Account Settings** screen will appear. Click the **Print** toggle to grey to unlock.

5. For the other device functions listed under **Accounting Mode**, select the appropriate **Authentication Access (Locked or Unlocked)**:
  - **Unlocked** (grey) - This allows unauthenticated users to access the given device function.
  - **Locked** (blue) - This allows only authenticated users to access the given device function.
- Note: Print** must be set to **Unlocked** to allow PaperCut MF to track and control printing.
6. Click **Save**.
7. At the confirmation prompt, click **Change** to restart the device.

8. Once the device completely restarts, click **Refresh**.



### 2.3.6 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 **Permissions > Accounting/Billing Device Settings > Jobs Tracked by Accounting/Billing Device**.
3. Toggle **Scan** and/or **Fax** to a blue check mark.
4. Click **Save**.

### 2.3.7 Install PaperCut MF on one or more devices

To integrate the PaperCut embedded software with your devices:

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:
  - [2.3.7.1](#) Install PaperCut MF on multiple devices
  - [2.3.7.2](#) Install PaperCut MF on each device

#### 2.3.7.1 Install PaperCut MF on multiple devices

Upload a CSV of device details within **PaperCut MF > Devices > Create multiple devices**.

Use this Enhanced MFD Deployment functionality to increase your operational efficiency by significantly reducing the time taken to add devices to PaperCut MF.

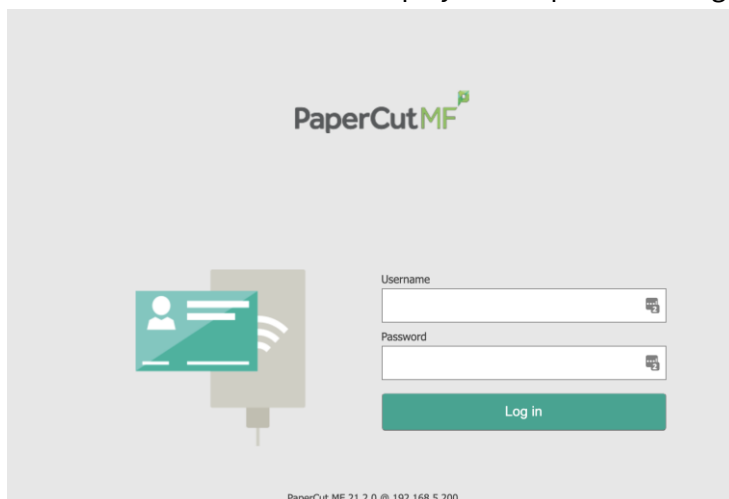
Enhanced MFD Deployment also lets you add devices to PaperCut MF before they are delivered to their installation site. Devices added this way are given the status of "Staged". You can only configure Staged devices if you know all of their attributes prior to delivery. For more information, see the [Enhanced Deployment Project](#).

#### 2.3.7.2 Install PaperCut MF on each device

To install PaperCut MF on each device:



1. Log in to the PaperCut MF Admin web interface and navigate to **Devices**.
2. Click **Create Device**.
3. In **Type**, select **Fujifilm BI AIP 7+** for a Multi-Function Device or **Fujifilm BI AIP 7+ (Printer only)** for a Single Function Printer.
4. In **Device name**, enter a descriptive name for the device.
5. (Optional) In **Location/Department**, enter the location or department details of the device.
6. In **Hostname / IP**, enter the network name or IP address of the device.
7. 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.
8. In **Function**, select the required device jobs:
  - **Track & control copying**
  - **Track & control scanning**
  - **Track & control faxing**
  - **Enable print release**
9. Click **OK**.
10. Wait for the *PaperCut MF – Fujifilm BI AIP 7+* software to finish integrating with the device.
11. Verify that PaperCut MF is installed on the device (that is, device registration and integration is completed). Check the following:
  - The PaperCut MF Admin web interface Device Details' **Device Status** displays the status **Started - Device is ready for user to login**.  
**Note:** If the **Device Status** displays any other status, please refer to the troubleshooting section.
  - The first screen on the device displays the PaperCut MF Login screen:



- The device's web interface list of installed plugins (under **Apps**) displays **PaperCut**.

### 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 - Fujifilm BI AIP 7+*:

- [3.2 Simple printing and 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 copying.
- **External user** – A user who performs simple printing.

To create internal 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):

The screenshot shows the 'Create Internal User' form in the PaperCut MF Admin web interface. The interface has a dark sidebar on the left with navigation links: Dashboard, Users, Groups, Accounts, Printers, Devices, Reports, Cards, Options, Logs, and About. The main content area is titled 'Create Internal User' and 'New User Settings'. It includes a description: 'Internal users are managed internally by PaperCut MF, and may be used in addition to those in the configured user directory source.' Below this 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, ID PIN, and Verify ID PIN. At the bottom, there is a checkbox for 'Email confirmation message to user' and two buttons: 'Cancel' and 'Register'.

8. Click **Register**.

To import external user:

1. Follow instructions as appropriate for your infrastructure found in the [PaperCut MF manual - Synchronize user and group details](#).

## 3.2 Simple printing and copying

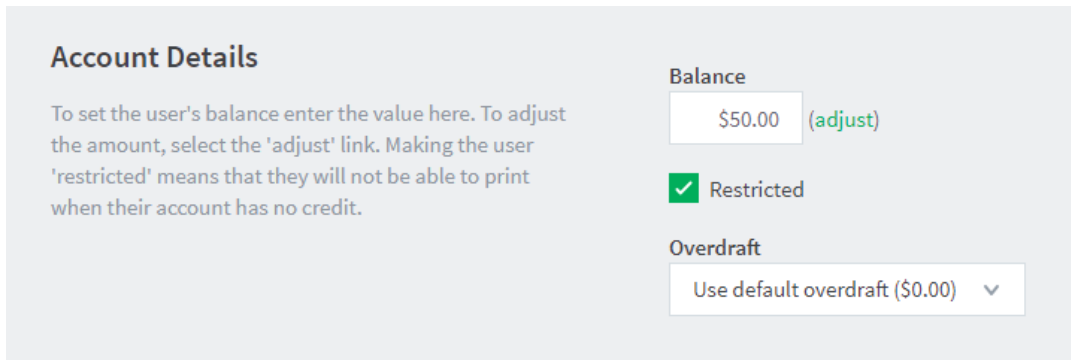
### 3.2.1 Test preparation: configure simple test users

To test the simple test scenarios, ensure the simple test user and external user are created. For more information, see [3.1 Test preparation: create test users](#). Once created, ensure the simple test user and external user are configured.

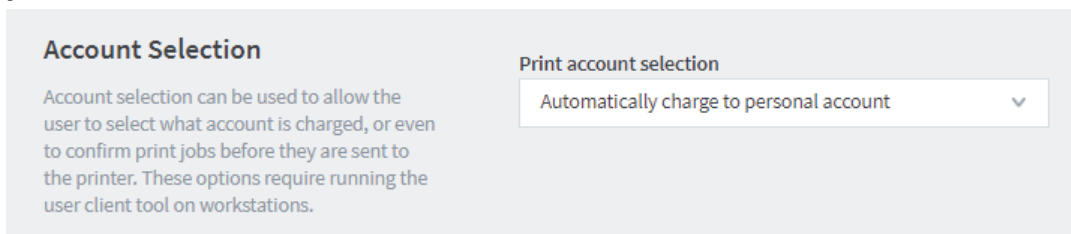
To configure the users:

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

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



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



6. Click **Apply**.

### 3.2.2 Simple printing

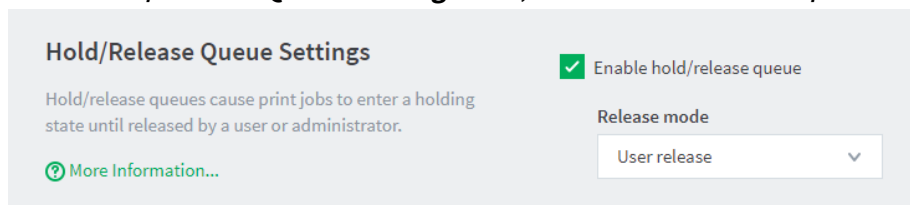
Simple printing does not involve providing the external user with a choice of accounts to choose from. Printing is charged to the external user's default My Personal Account.

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

- **External user** – An External 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 users](#).
- **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:

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



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

- **Device functions** – Printing is enabled. To enable printing:
  1. Log in to the PaperCut MF Admin web interface.
  2. Navigate to **Devices**.
  3. 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 External 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 External user are being held and listed:

**PaperCut MF** Jobs Pending Release

Printer List **Jobs Pending Release** Notification Options Charts Refunds

Filter off

4 jobs pending release with cost \$0.20

☐ Auto refresh Refresh Now

**Release All** **Cancel All**

SUBMIT TIME	PRINTER	USER	DOCUMENT	CLIENT	PAGES	COST	ACTION
Jan 2, 2018 9:52:22 AM	laptop-simpletestuser(Printer2)	simpletestuser	Prep activities - week 2	laptop-simpletestuser	1	\$0.05	[print] [cancel] [override]
Jan 2, 2018 9:52:19 AM	laptop-simpletestuser(Printer1)	simpletestuser	Prep activities - week 1	laptop-simpletestuser	1	\$0.05	[print] [cancel] [override]
Jan 2, 2018 9:52:14 AM	laptop-simpletestuser(Printer1)	simpletestuser	Report template	laptop-simpletestuser	1	\$0.05	[print] [cancel] [override]
Jan 2, 2018 9:52:11 AM	laptop-simpletestuser(Printer1)	simpletestuser	SchoolNewsLetter Template	laptop-simpletestuser	1	\$0.05	[print] [cancel] [override]

Full Screen View

**Actions (4)**

- Printer configuration
- Charts and statistics
- Notification options
- List all jobs

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

**PaperCut MF**

Please enter your username and password

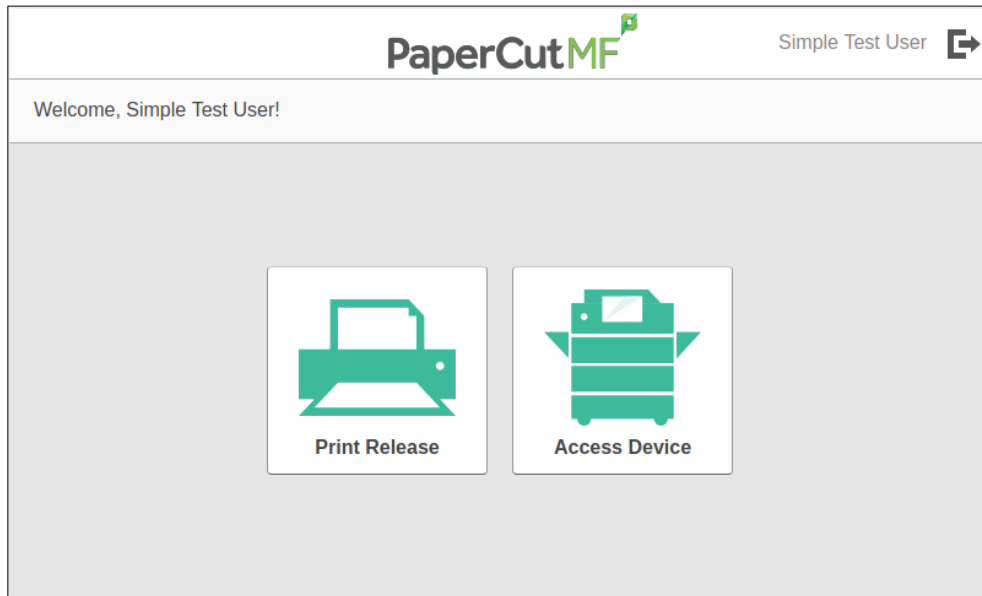
Username

Password

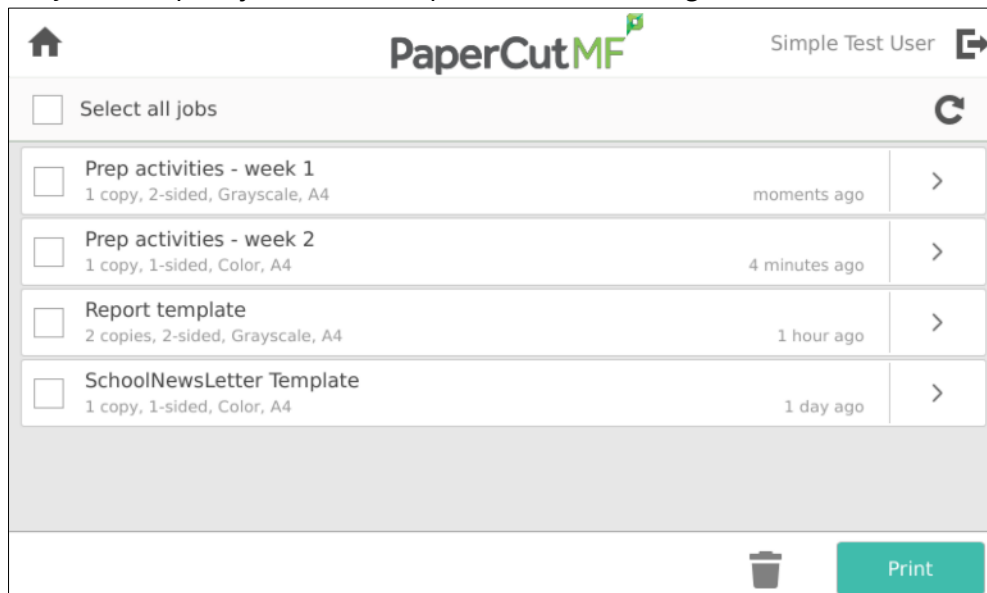
**Log in**

PaperCut MF 18.1.0

8. Select **Print Release**:



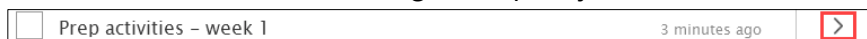
9. Verify that the print jobs for the simple test user are being held and listed:



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:

Print Release > Prep activities - week 1

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

Print

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 External user's name in the **User** column and the **Charged To** column:

Job Log

Filter on

DATE	USER	CHARGED TO	PRINTER	PAGES	COST	DOCUMENT NAME	ATTRIBS	STATUS
Jan 3, 2018 11:27:15 AM	simpletestuser	simpletestuser	device/Library-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

Export/Print

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.

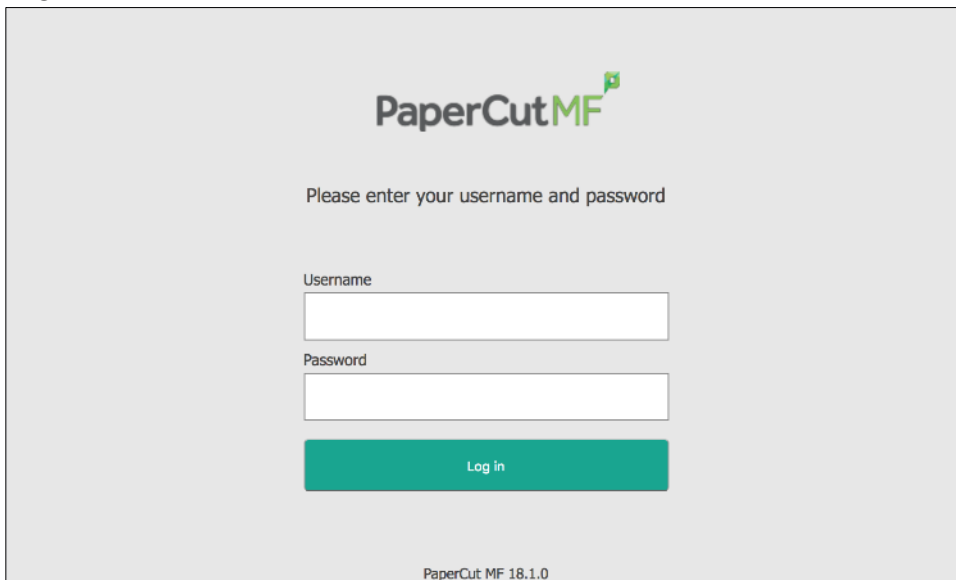
To test simple copying, ensure the following test preparation requirements are met:

- **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.

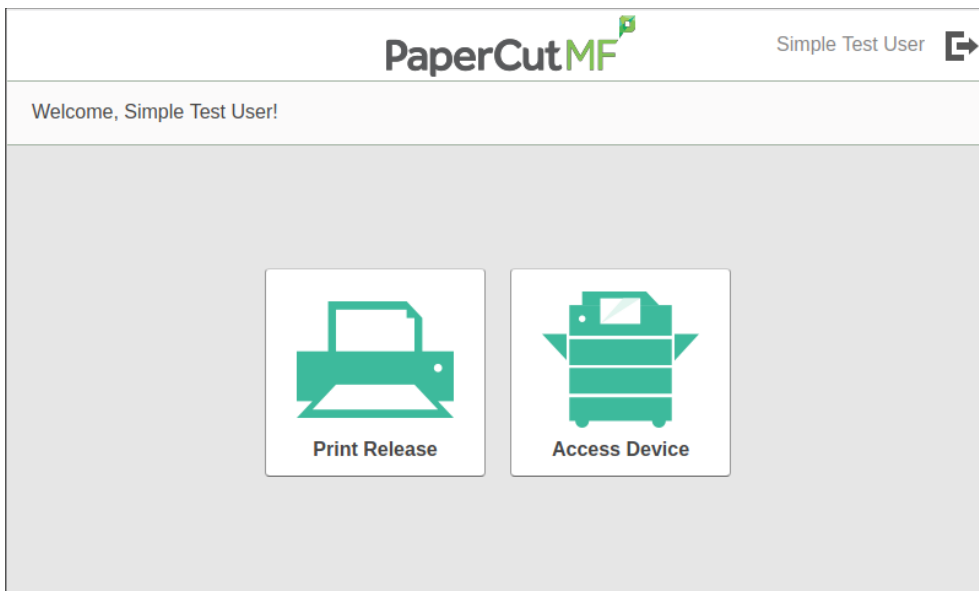
To test simple copying:

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



The image shows the PaperCut MF login interface. At the top 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 these fields is a green "Log in" button. At the bottom of the screen, the text "PaperCut MF 18.1.0" is visible.

2. Select **Access Device**:

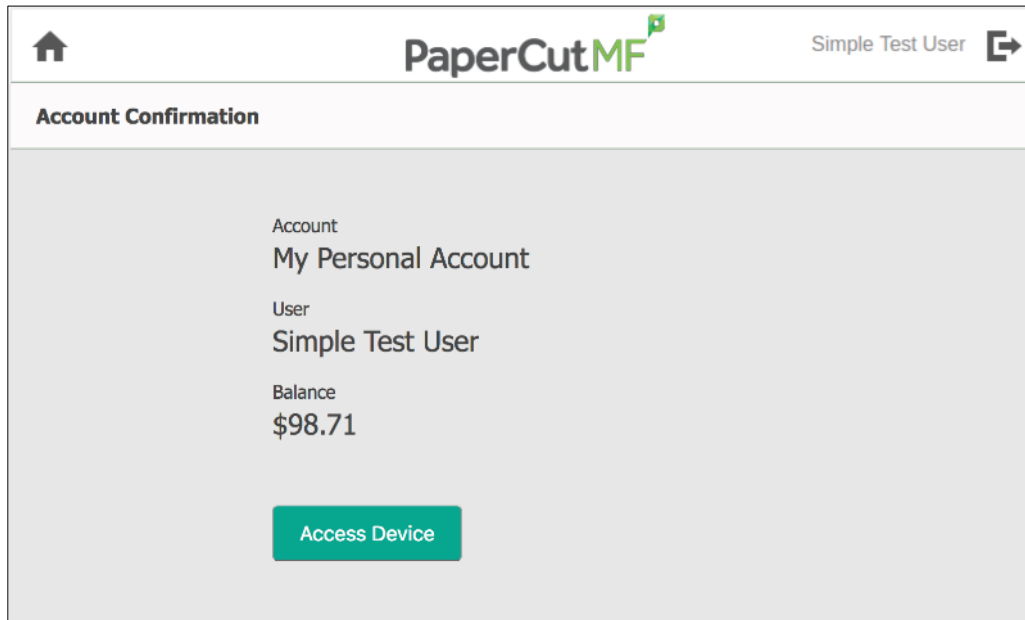


The image shows the PaperCut MF dashboard for the "Simple Test User". At the top, the PaperCut MF logo is on the left, and "Simple Test User" with an exit icon is on the right. Below the header, a welcome message "Welcome, Simple Test User!" is displayed. The main area contains two large icons: "Print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

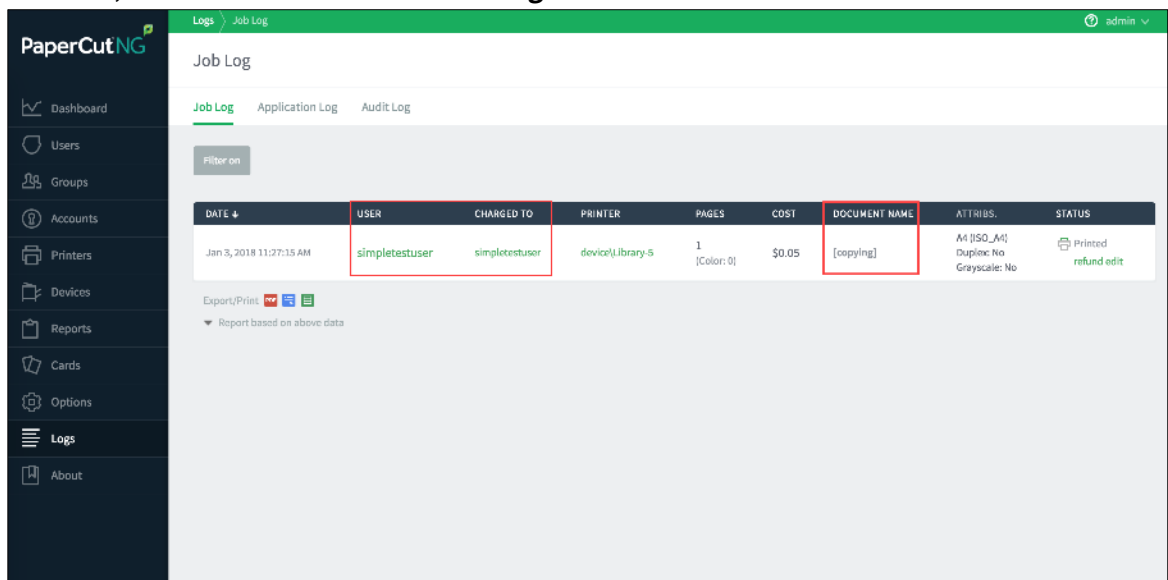
3. Verify that the PaperCut MF Account Confirmation screen does not provide the simple test user with a choice of accounts to choose from, and charges copying to the simple test



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:



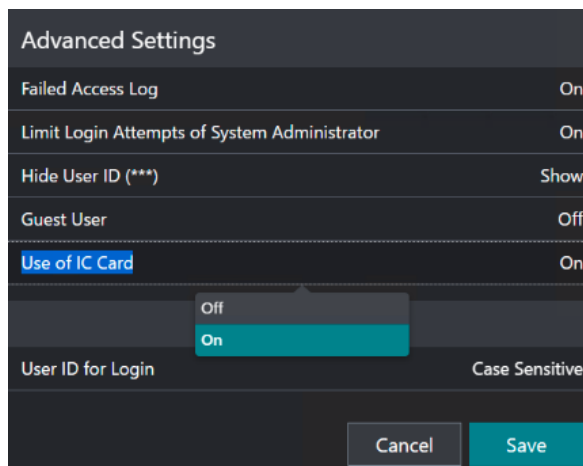
11. Log out of the PaperCut MF Admin web interface.

## 4 Configuration

### 4.1 User authentication via swipe cards

If the **Swipe card** authentication option is selected, then:

1. Log in to the device's web interface as an administrator.
2. Navigate to **Permissions > Authentication and Accounting > Advanced Settings**



3. Set **Use of IC Card** to **On**.
4. Set **Hide User ID (\*\*\*)** to **Show**.
5. Click **Save**.
6. Access the physical device.
7. Connect the supported card reader (see [4.2 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.

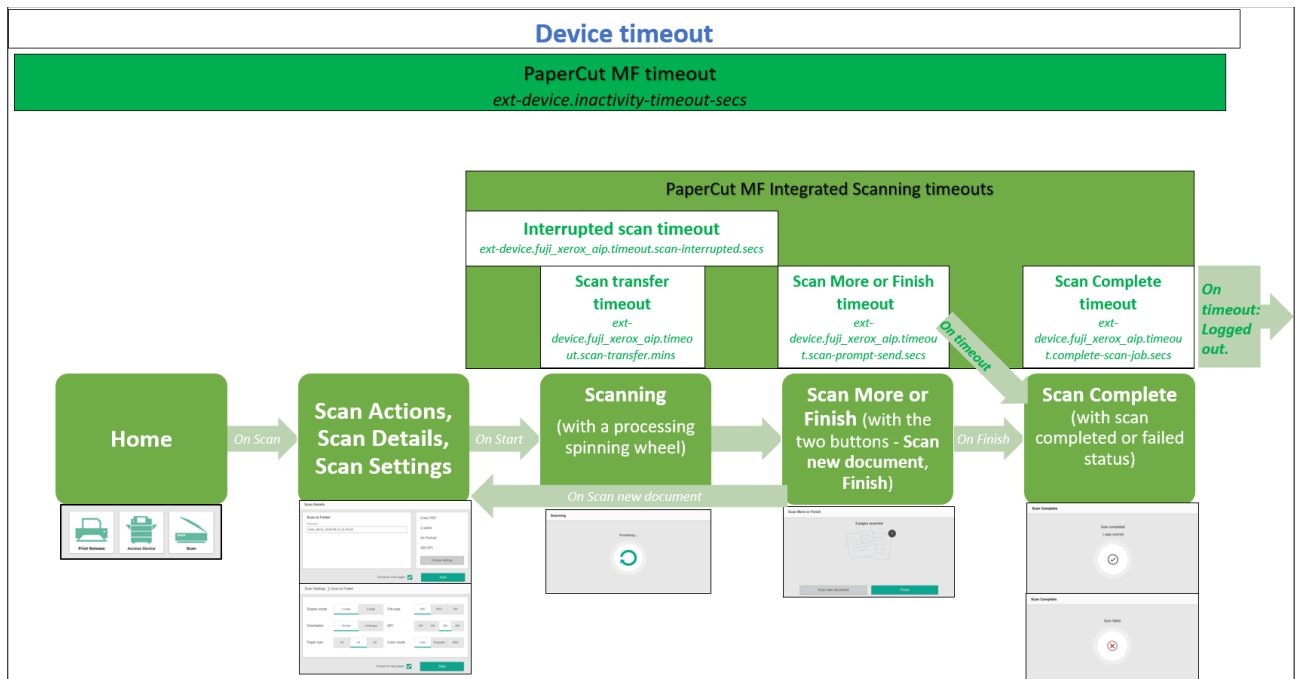
### 4.2 Supported card readers

*PaperCut MF - Fujifilm BI AIP 7+* supports the following configured and compatible card readers:

- IC Card Reader B (Omnikey5127CK-MINI)  
**Note:** This is the only supported card reader.

### 4.3 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:

- Log in to the device as an administrator.
- Navigate to **System > Timeouts**:

Timeouts	
Auto Clear (Local Device)	
Timeout	10–900 Seconds <input type="text" value="60"/>
Auto Clear (Internet Services)	
Timeout	1–240 Minutes <input type="text" value="240"/>
<input type="button" value="Cancel"/> <input type="button" value="Save"/>	

- Alter the **Auto Clear** timeout value and then click **Save**.

**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).

- 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 4.6 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.fujifilm.timeout.scan-transfer.mins
  - **PaperCut MF interrupted scan timeout**  
ext-device.fujifilm.timeout.scan-interrupted.secs
  - **PaperCut MF Scan More or Finish timeout**  
ext-device.fujifilm.timeout.scan-prompt-send.secs
  - **PaperCut MF Scan Complete timeout**  
ext-device.fujifilm.timeout.complete-scan-job.secs

For more information, see 4.6 Config Editor.

## 4.4 Screen headers

### 4.4.1 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.fujifilm.ui.header-color**  
**ext-device.fujifilm.ui.header-text-color**  
For more information, see 4.6 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.

### 4.4.2 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\fb\
2. Log in to the device as a test user (simple test user).
3. Verify that the device's header logo is as required.

## 4.5 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.fujifilm.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}	<button>Update</button> <button>Remove</button>


  

admin 


Welcome, admin!



Access Device

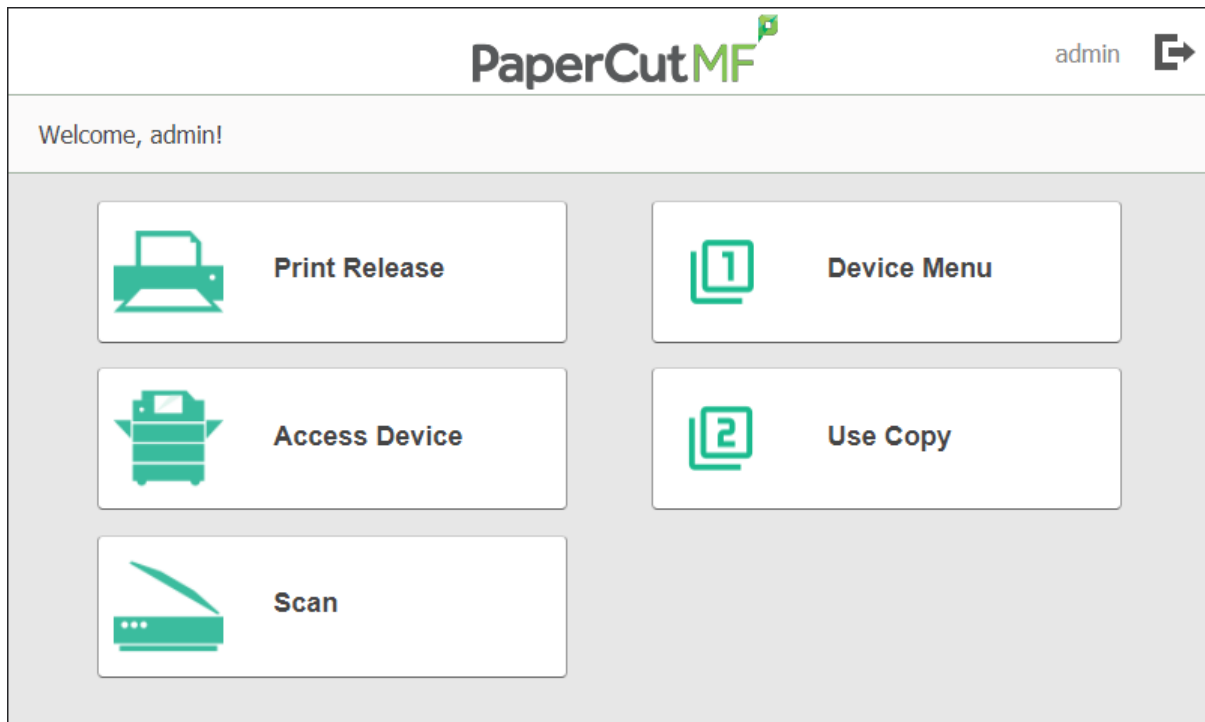


Device Menu



Use Copy

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 4.6 Config Editor.

## 4.6 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
<b>Device screens</b>	
<b>ext-device.fujifilm.locale-override</b>	<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"> <li>Values: xx (language), xx_XX (language_region), DEFAULT For example, ja (Japanese), en_US (English_United States of America)</li> <li>Default: DEFAULT (language of the locale in which the device was installed)</li> </ul> <p><b>Note:</b> 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>
<b>ext-device.fujifilm.ui.header-color</b>	<p>Customize the background color of headers on all PaperCut MF screens.</p> <p>This is a device-specific config key.</p> <ul style="list-style-type: none"> <li>Values: Valid <a href="#">CSS color specifications</a> (color names or HTML RGB, HEX #rrggbb, HSL, RGBA, HSLA values), DEFAULT</li> <li>Default: DEFAULT (dark green)</li> </ul> <p><b>Note:</b> For more information, see <a href="#">4.4.1 Header colors</a>.</p>
<b>ext-device.fujifilm.ui.header-text-color</b>	<p>Customize the text 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 (white)

**Note:** For more information, see [4.4.1 Header colors](#).

---

#### **ext-device.fujifilm.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.fujifilm.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).

---

#### **ext-device.fujifilm.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**
-



	<p><b>number</b> authentication option is selected.</p> <ul style="list-style-type: none"> <li>Retaining the default setting (DEFAULT) is recommended for all devices.</li> </ul>
<b>ext-device.fujifilm.ui.force-virtual-keypad</b>	<p>Toggle the display of the soft numeric keyboard.</p> <p>This is a device-specific config key.</p> <ul style="list-style-type: none"> <li>Values: N, Y</li> <li>Default: N</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>Setting this to N – <ul style="list-style-type: none"> <li>hides the soft numeric keyboard <b>ONLY</b> if the config key <b>ext-device.fujifilm.login.id-field.numeric</b> is ALSO set to <b>N</b>.</li> <li>is overridden (i.e. displays the soft numeric keyboard) if the config key <b>ext-device.fujifilm.login.id-field.numeric</b> to <b>Y</b>.</li> </ul> </li> <li>Setting this to Y – <ul style="list-style-type: none"> <li>displays the soft numeric keyboard.</li> <li>overrides the <b>N</b> setting of the config key <b>ext-device.fujifilm.login.id-field.numeric</b></li> </ul> </li> </ul>
<b>ext-device.fujifilm.login.id-field.numeric</b>	<p>Toggle the display of the soft numeric keyboard for entering an ID number during user authentication.</p> <p>This is a device-specific config key.</p> <ul style="list-style-type: none"> <li>Values: N, Y</li> <li>Default: N</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>This is applicable only if the <b>Identity number</b> authentication option is</li> </ul>

selected; and users' **Identity Numbers** have only numbers.

- Setting this to Y –
  - displays the soft numeric keyboard on Fujifilm Business devices
  - overrides the **N** setting of the config key **ext-device.fujifilm.ui.force-virtual-keypad**
  - hides the soft alpha-numeric keyboard on all devices.
- Setting this to N –
  - hides the soft numeric keyboard on Fujifilm Business devices **ONLY** if the config key **ext-device.fujifilm.ui.force-virtual-keypad** is ALSO set to **N**
  - is overridden (i.e. displays the soft numeric keyboard) if the config key **ext-device.fujifilm.ui.force-virtual-keypad** to **Y**.
  - displays the soft alpha-numeric keyboard on all devices

#### **ext-device.fujifilm.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.fujifilm.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.fujifilm.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.fujifilm.ui.initial-screen**

Specify the device function that the device defaults to when users attempt to access device native functions.

This is a device-specific config key.

- Values: DEFAULT, any one of the following device functions:
  - home
  - allservice
  - copy
  - box
  - scantofolder
  - scanto
  - fax
  - privateprint
  - secureprint
  - authprint
  - nativemenu
  - Webservice1-10
  - cstm1-10
- 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.

**Note:** If this config key is set to an invalid value, Access Device will forward through to DEFAULT

#### **ext-device.fujifilm.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.fujifilm.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:
  - Home
  - Copy
  - Extended Folder
  - Store to Folder
  - E-mail
  - Charge Print
  - Fax
  - Private Charge Print

- Secure Print
- Scan to
- The function name can also be set to the name of any third-party web application or custom application.
- Default: DEFAULT (no custom applications)
- **Note:** If a function name is set to an invalid value, that icon will forward through to the device native home screen

#### **ext-device.fujifilm.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.fujifilm.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.fujifilm.skip-release-screen-when-no-jobs** to take effect.

#### **ext-device.fujifilm.skip-release-screen-**

When the device is configured to show the PaperCut MF Home screen and the PaperCut

## when-no-jobs

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.fujifilm.device-functions-on-login** is set to **N**), and
- show the PaperCut MF Print Release screen (i.e. the config key **ext-device.fujifilm.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

	<p>screen (i.e. the config key <b>ext-device.fujifilm.device-functions-on-login</b> and <b>ext-device.fujifilm.direct-to-release-page</b> are set to <b>N</b>).</p>
<p><b>ext-device.fujifilm.account-selection.bypass-for-default-account</b></p>	<p>Toggle the display of the PaperCut MF Select Account screen.</p> <p>This is a device-specific config key.</p> <ul style="list-style-type: none"> <li>• Values: N (show the PaperCut MF Select Account screen), Y (hide the PaperCut MF Select Account screen, based on other settings)</li> <li>• Default: N</li> </ul> <p><b>Note:</b> Setting this to Y – hides the PaperCut MF Select Account screen when the user accesses device jobs only if:</p> <ul style="list-style-type: none"> <li>• 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),</li> <li>• the device is configured to display the PaperCut MF Account Confirmation screen.</li> </ul>
<p><b>ext-device.fujifilm.release-show-cost</b></p>	<p>Toggle the display of the cost of held print jobs on the PaperCut MF Print Release screens on the device.</p> <p>This is a device-specific config key.</p> <ul style="list-style-type: none"> <li>• Values: Y, N</li> <li>• Default: Y</li> </ul> <p><b>Note:</b> Setting this to N –</p> <ul style="list-style-type: none"> <li>• hides the account balance, and</li> <li>• does not display the savings based on other changes made to held print job settings.</li> </ul>
<p><b>ext-device.fujifilm.home-directory.personalized</b></p>	<p>Specify whether or not the device's <b>Scan to PC</b> auto-populates the configured user home directory network path.</p>

This is a device-specific config key.

- Values: Y, N
- Default: Y

**Note:** This is only applicable if user's home directory network path is configured as required.

#### **ext-device.fujifilm.email.personalized-sender**

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.

This is a device-specific config key.

- Values: Y, N
- Default: Y

**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**).

#### **ext-device.fujifilm.scan.prompt.checkbox.checked**

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**).

This is a device-specific config key.

- Values: Y (checked by default; can be changed by the user), N (unchecked by default; can be changed by the user)
- Default: Y

### "Swipe card" authentication option

#### **ext-device.card-self-association.use-**

Specify the use of the primary or the secondary card number slot to save card



## secondary-card-number

identifiers during card self-association.

This is a global and device-specific config key.

Device-specific:

- Values: Y, N, GLOBAL (inherited from global settings)
- Default: GLOBAL (inherited from global settings)

Global:

- Values: N (Primary), Y (Secondary)
- Default: N

**Note:** This is only applicable if the **Swipe card - Enable self-association with existing user accounts** authentication option is selected.

## 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.

## 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.

#### **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.

## **Job costs and account balances (Zero Stop)**

#### **ext-device.fujifilm.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.fujifilm.logs.download-period-after-login** is *LOWER* than the value of the config key **ext-**

- **device.fujifilm.period.ping,** is recommended to ensure that restricted users' account balances do not drop below zero.

#### **ext-device.fujifilm.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

#### **ext-device.fujifilm.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)

## 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.

#### **ext-device.fujifilm.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 lock on the device**, implying that PaperCut MF installation is unsuccessful because the device could not be temporarily locked. For more information, see [6.2 Device Status "Device is currently in use, unable to initiate exclusive lock on the device"](#).

#### **ext-device.fujifilm.force-device-login-tries-sleep-secs**

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).

- Values: Any positive number (seconds)
- Default: 5 (seconds)

#### **ext-device.fujifilm.period.error**

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).

This is a device-specific config key.

- Values: 1-3600 (seconds)

- Default: 60 (seconds)

#### **ext-device.fujifilm.logs.download-period-after-login**

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.

This is a device-specific config key.

- Values: 1-3600 (seconds)
- Default: 20 (seconds)

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

#### **ext-device.fujifilm.period.ping**

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).

This is a device-specific config key.

- 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.fujifilm.logs.download-period-after-login**, is Job Limits applied on restricted users during user authentication (i.e the config key **ext-device.fujifilm.login.job-limits** comes into effect).

#### **ext-device.fujifilm.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.fujifilm.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.fujifilm.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.fujifilm.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.fujifilm.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.fujifilm.integration.enabled**

Specify whether or not *PaperCut MF - Fujifilm Business* 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 - Fujifilm Business* on the PaperCut MF Admin web interface and on the device,
  - is required when attempting to temporarily disable *PaperCut MF - Fujifilm BI AIP 7+* on the device (see [7.1](#) Disable PaperCut MF - Fujifilm BI AIP 7+)
- Setting this to N –
  - removes *PaperCut MF - Fujifilm BI AIP 7+* 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 [2.3.5](#) Configure the device's user access permission settings).
- activates the config key **ext-device.fujifilm.force-uninstall-plugins**.
- For more information, see [7.2](#) Remove PaperCut MF – Fujifilm BI AIP 7+ from the device

### **ext-device.fujifilm.force-uninstall-plugins**

When removing or deleting *PaperCut MF - Fujifilm Business* 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.fujifilm.integration.enabled** is set to **N**). For more information, see [7.2 Remove PaperCut MF – Fujifilm BI AIP 7+ from the device](#).
- Or, PaperCut MF is deleted from the PaperCut MF Admin web interface. For more information, see [7.3 Delete PaperCut MF - Fujifilm BI AIP 7+](#).

## 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 [4.3 Timeouts](#).

### **ext-device.fujifilm.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 [4.3 Timeouts](#).

### **ext-device.fujifilm.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 [4.3 Timeouts](#).

---

**ext-device.fujifilm.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 [4.3 Timeouts](#).

---

**ext-device.fujifilm.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 [4.3 Timeouts](#).

---

**ext-device.fujifilm.scan.max-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.fujifilm.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 Integrated scan fails if user credit is recharged during logged in session

If a restricted user is logged in without any credit and attempts to perform an integrated scan, the scan will be denied. If credit is then added while the user is still logged into the device, the user must logout and login again before attempting another integrated scan. If another integrated scan is attempted before logout, the scan will be permitted but will fail.

## 5.2 If no account is selected, device native function access will return the user to PaperCut login screen

If account selection is turned on, it is possible for a user to press the device home button before selecting an account. If the user then selects a charged device native function (such as copy), the user will be returned to the PaperCut login screen.

## 5.3 Slow loading times when the card reader is enabled on a device but not plugged in

In the device's web admin interface, if Permissions > Authentication/Accounting > Advance Settings > Use of IC Card is set to **On** but the card reader is not physically connected, then some loading screens will take roughly 20 seconds to load. To resolve this either plug in the card reader or set Permissions > Authentication/Accounting > Advance Settings > Use of IC Card to **Off**. For more information, please see [4.1 User authentication via swipe cards](#).

## 5.4 The only supported card reader is IC Card Reader B (Omnikey5127CK-MINI)

Please see [4.2 Supported card readers](#).

# 6 Troubleshooting

## 6.1 Device Status "Operation not supported"

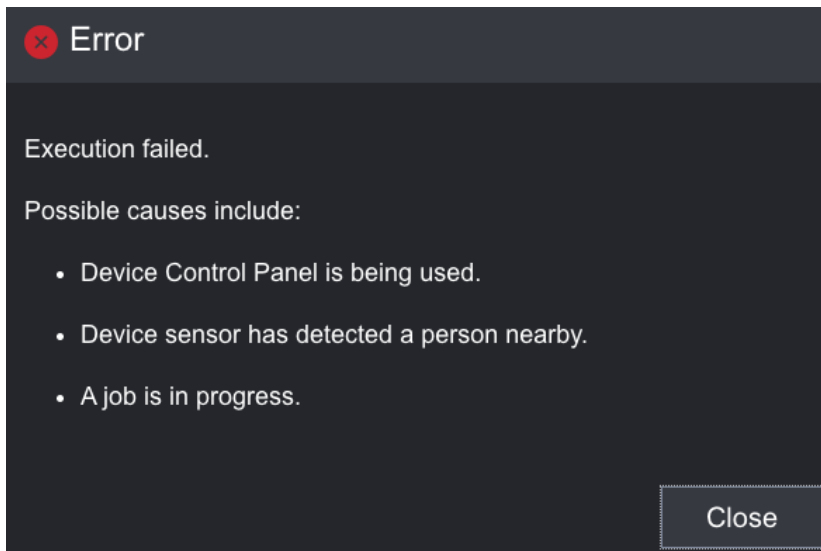
After attempting to install PaperCut MF on the device, if the **Device Status** displays **Operation not supported**, it implies that PaperCut MF installation is unsuccessful because of the configuration of the device's custom services settings. Ensure that the device is configured as specified in [2.3 Summary of the Setup Procedure](#).

## 6.2 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:

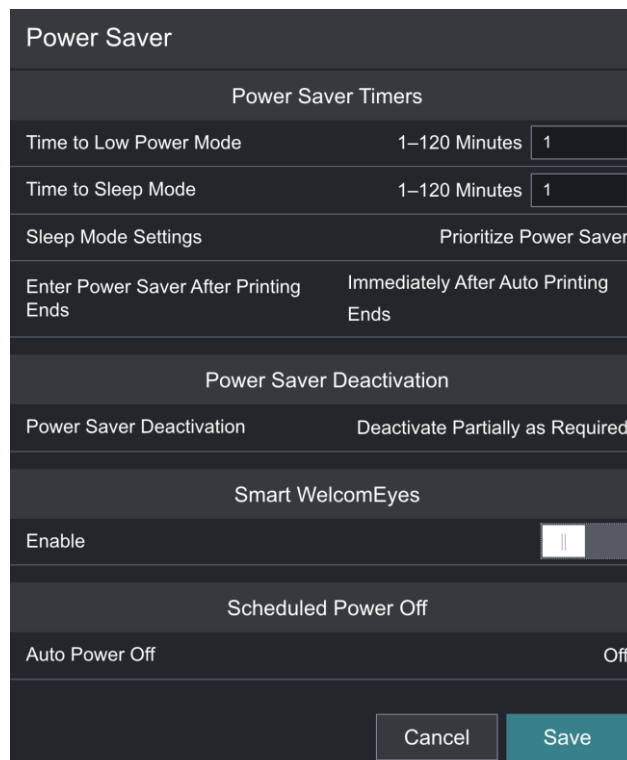
- either, the device is being used by a user to process a job,
- or, although the device is not being used to process a job it "appears" to be in use, because of the configuration of the device's Smart WelcomEyes settings, which is detecting motion.

A similar issue can occur when changing admin settings via the device's web interface



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 **System > Power Saver**
  - c. In **Smart WelcomEyes**, ensure **Enable** is not selected:



- d. Click **Save**.

If this does not rectify the issue, then put the device to sleep before attempting to install PaperCut or make Admin changes, as this can resolve this issue.

### 6.3 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:

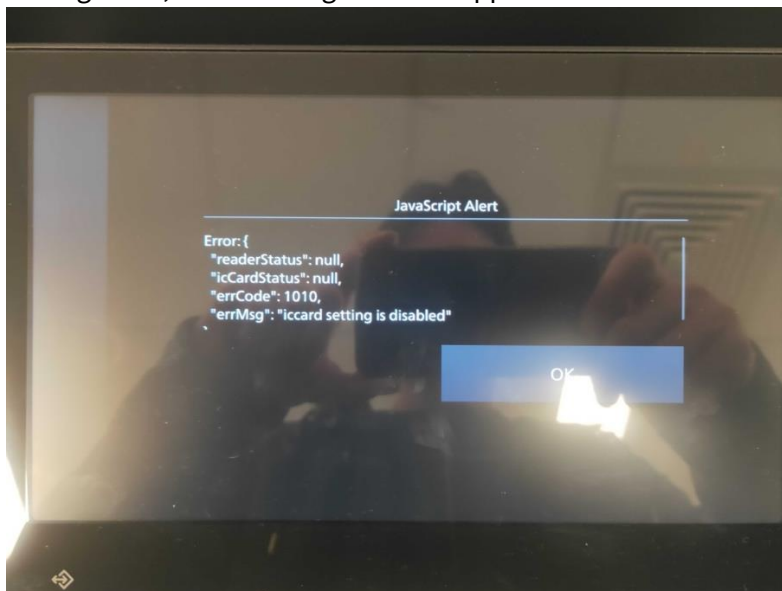
- There is a network outage that is preventing network connection
- The PaperCut MF Application Server is not running
- The PaperCut MF Application Server's firewall or network routing configuration is preventing network connection
- There are errors in the **Create Device** fields (**Type, Device name,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

### 6.4 Error shown when card reader login is enabled with no card reader attached

If card reader login is enabled in MF, no card reader is attached, and the device Use of IC Card setting is **Off**, the following error will appear on the device:



To resolve this error, login to the device's web interface as administrator and navigate to

Permissions > Authentication/Accounting > Advance Settings. Then click on Use of IC Card, select **On**, and click Save. For more information see [4.1 User Authentication via Swipe Cards](#).

## 7 Uninstall PaperCut MF – Fujifilm BI AIP 7+

There are three available methods with various depth to remove the PaperCut embedded application:

- **Disable** – Disallow use of the device. The PaperCut embedded application remains on the device.
- **Remove** – Remove the PaperCut embedded application from the device. Configuration is retained on the PaperCut server. Users can use device native functionality.
- **Delete** – Completely uninstall the PaperCut embedded application from the device and the PaperCut server.

### 7.1 Disable PaperCut MF - Fujifilm BI AIP 7+

Use this method if you want to retain the PaperCut embedded application on the device and disallow device usage.

Disabling *PaperCut MF - Fujifilm Business*:

- retains *PaperCut MF - Fujifilm BI AIP 7+* 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 [2.3.5](#) Configure the device's user access permission settings)

To disable *PaperCut MF - Fujifilm BI AIP 7+*:

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



**Configuration**

Simple configuration options. Advanced configuration options are available below and on the other tabs.

**Type/Model**  
Multifunction Printer

**Serial number**  
TC101677200182

**Physical identifier**  
net://10.50.20.73

**Toner status**

Black 100%

Cyan 100%

Magenta 100%

Yellow 100%

update

▼ 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

Enabled ▼

7. Verify that *PaperCut MF - Fujifilm BI AIP 7+* is disabled.

**Configuration**

Simple configuration options. Advanced configuration options are available below and on the other tabs.

**Type/Model**  
Multifunction Printer

**Serial number**  
TC101677200182

**Physical identifier**  
net://10.50.20.73

**Toner status**

Black 100%

Cyan 100%

Magenta 100%

Yellow 100%

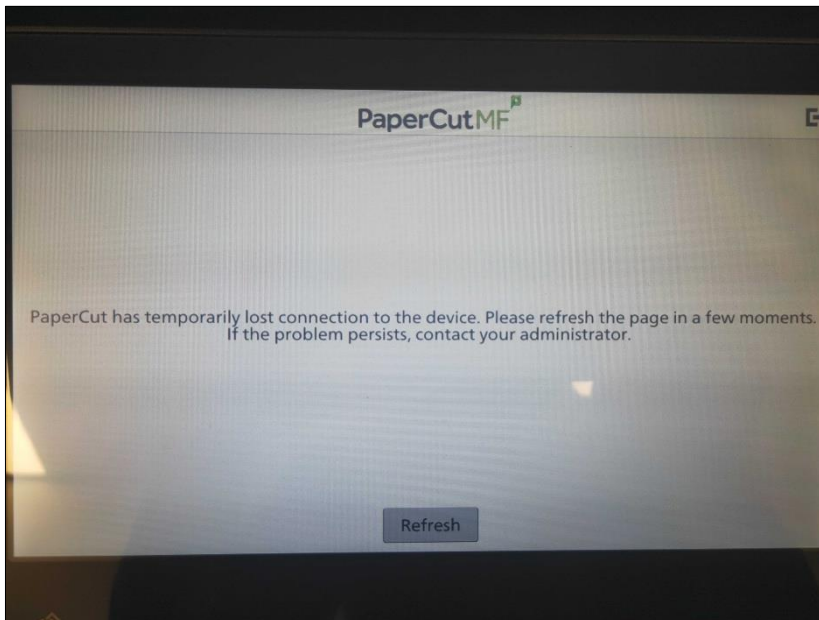
Last updated on Aug 2, 2022 2:49:46 PM update

**Location/Department**  
MEL L2

**Hosted on**  
Application server [Change]

**Enable/Disable**  
🔒 Disabled until Aug 2, 2022 4:08:21 PM (Enable)

8. On the device, verify that the following error message is displayed:



## 7.2 Remove PaperCut MF – Fujifilm BI AIP 7+ from the device

Use this method to remove the PaperCut embedded application from the device while retaining the device configuration on the server. The embedded application can later be reenabled from the server.

Removing *PaperCut MF - Fujifilm BI AIP 7+* from the device:

- removes *PaperCut MF - Fujifilm BI AIP 7+* 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 functions. (See [2.3.5 Configure the device's user access permission settings.](#))

To remove *PaperCut MF - Fujifilm BI AIP 7+*:

1. Log in to the PaperCut MF Admin web interface and navigate to **Devices**.
2. Select the device.
3. Click **Advanced Config**.
4. Set the config key **ext-device.Fujifilm.integration.enabled** to **N**.
5. Click **Update all**.
6. Verify that *PaperCut MF - Fujifilm BI AIP 7+* is not available on the device to users:
  - a. View the device panel.
  - b. Confirm that the PaperCut login screen is not presented.
  - c. Confirm that the PaperCut launch icon is not available.
7. Verify that the authentication plugin was removed:
  - a. Log in to the device's web interface as an administrator.
  - b. Navigate to **System > Plug-in Settings**.
  - c. Confirm that the **PaperCut** is no longer listed.

To reenable *PaperCut MF - Fujifilm BI AIP 7+*:

1. Log in to the PaperCut MF Admin web interface and navigate to **Devices**.
2. Select the device.
3. Click **Advanced Config**.
4. Set the config key **ext-device.Fujifilm.integration.enabled** to **Y**.
5. Click **Update all**.

### 7.3 Delete PaperCut MF - Fujifilm BI AIP 7+ from the device

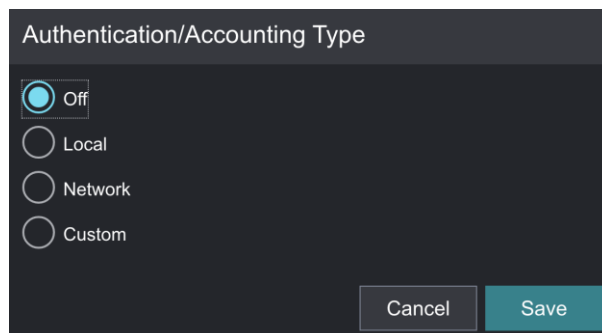
Use this method to completely uninstall the PaperCut embedded software from the device and remove the device configuration from the PaperCut server.

Deleting *PaperCut MF - Fujifilm BI AIP 7+* triggers the following actions:

- Removes *PaperCut MF - Fujifilm BI AIP 7+* 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 [2.3.5](#) Configure the device's user access permission settings).

To delete *PaperCut MF - Fujifilm BI AIP 7+*:

1. Remove Authentication/Accounting Type:
  - a. Log in to the device's web interface as an administrator.
  - b. Navigate to **Permissions > Authentication and Accounting > Authentication/Accounting Type**
  - c. Set to **Off**.



- d. Click **Save**.
2. Log in to the PaperCut MF Admin web interface and navigate to **Devices**.
  3. Select the device.

4. Click **Actions > Delete this device**.

The screenshot shows the PaperCut MF configuration interface. The 'Configuration' tab is active, displaying fields for Physical identifier (net://10.50.20.73), Toner status (No toner information received), Location/Department (MEL L2), and Enable/Disable (Enabled). On the right, the 'Actions (8)' sidebar is visible, with 'Delete this device' highlighted by a red box.

5. Click **OK**.

The screenshot shows a confirmation dialog box with the text: '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.' There are 'Cancel' and 'OK' buttons at the bottom.

6. Click **Devices** and verify that the device is no longer listed (*PaperCut MF - Fujifilm BI AIP 7+* is deleted).

7. Verify that *PaperCut MF - Fujifilm BI AIP 7+* is not available on the device to users:

- View the device panel.
- Confirm that the PaperCut login screen is not presented.
- Confirm that the PaperCut launch icon is not available.

6. Verify that the authentication plugin was removed:

- a. Log in to the device's web interface as an administrator.
- b. Navigate to **System > Plug-in Settings**.
- c. Confirm that the **PaperCut** is no longer listed.

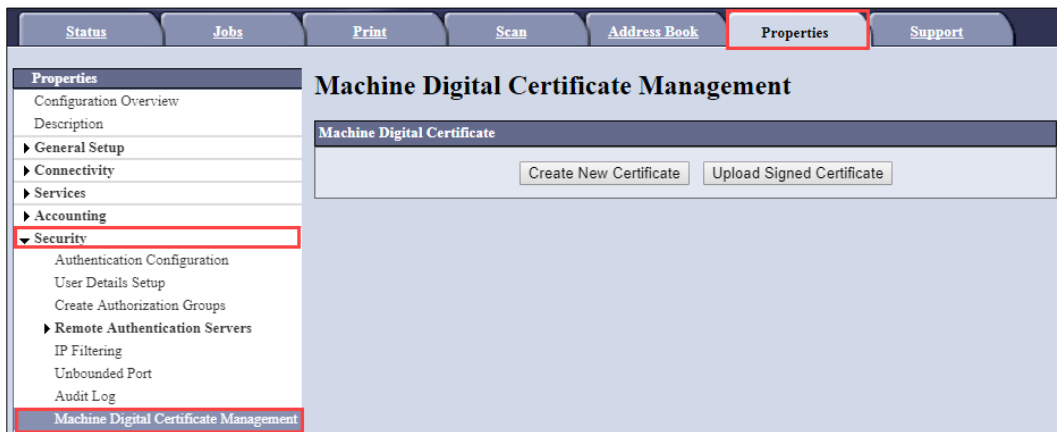
## 8 Appendix A – Fuji Xerox Device Preparation

### 8.1 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.

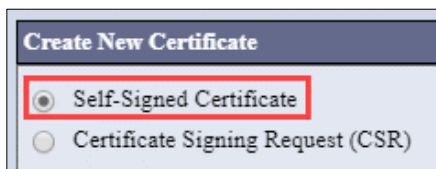
2. Navigate to **Properties > Security > Machine Digital Certificate Management**:



**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, [8.2 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:

The screenshot shows the 'Create Self-Signed Certificate' form. It contains the following fields and values:

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

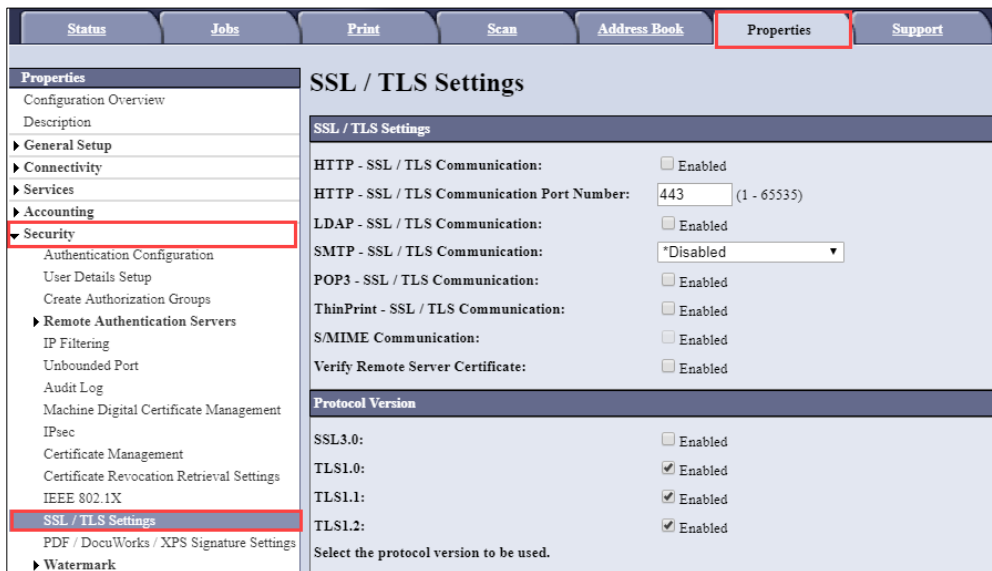
7. Click **Apply**.

## 8.2 Configure the device's secure communication protocol settings

To configure the device's secure communication protocol settings:

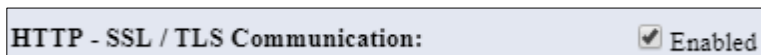
1. Log in to the device's web interface as an administrator.

2. Navigate to **Properties > Security > SSL / TLS Settings**:



SSL / TLS Settings	
HTTP - SSL / TLS Communication:	<input 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.	

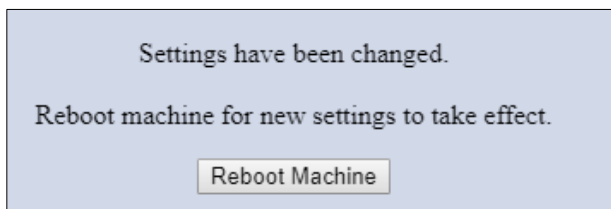
3. In **HTTP - SSL / TLS Communication**, select **Enabled**:



HTTP - SSL / TLS Communication: ☒ Enabled

4. Click **Apply**.

5. Click **Reboot Machine**:



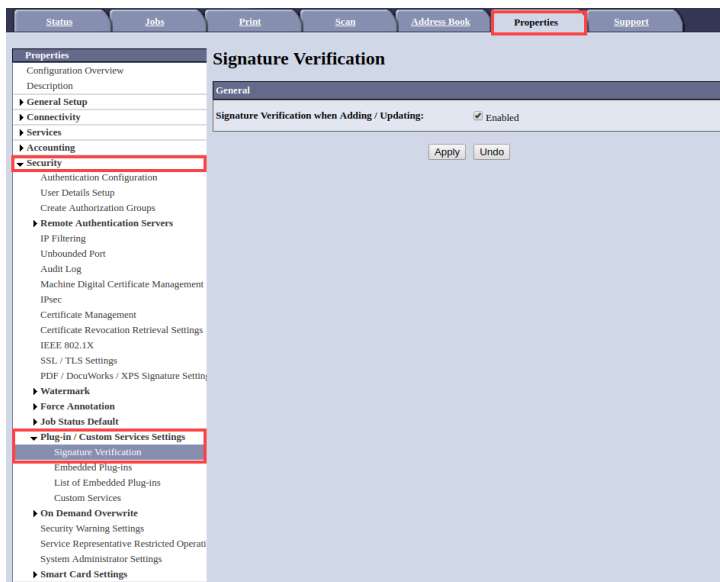
Settings have been changed.  
Reboot machine for new settings to take effect.  
**Reboot Machine**

### 8.3 Configure the device's signature verification settings

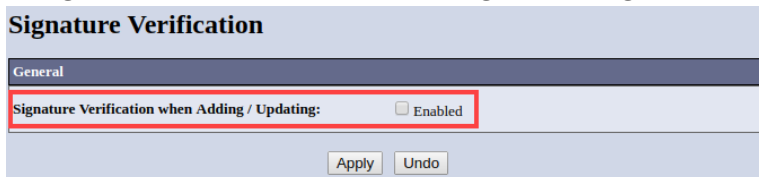
To configure the device's signature verification settings:

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

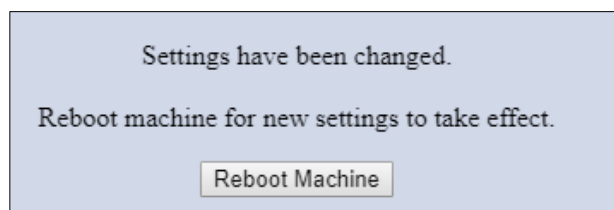
2. Navigate to **Properties > Security > Plug-in / Custom Services Settings > Custom Services:**



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



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

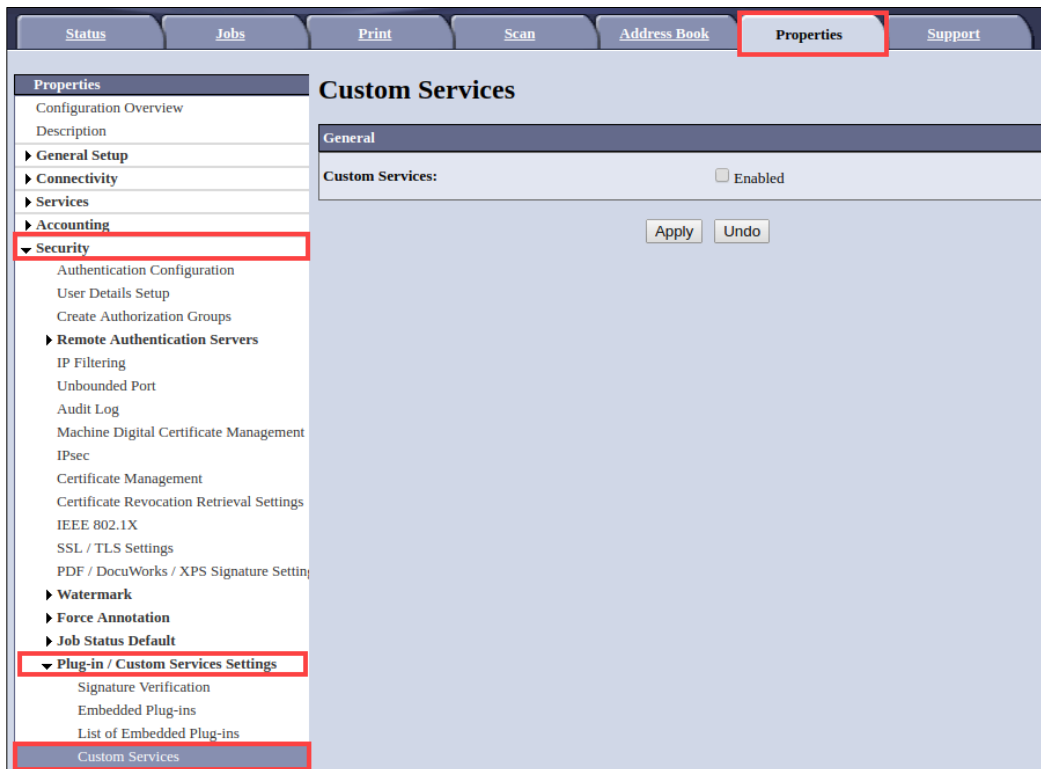


## 8.4 Configure the device's custom services settings

To configure the device's custom services settings:

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

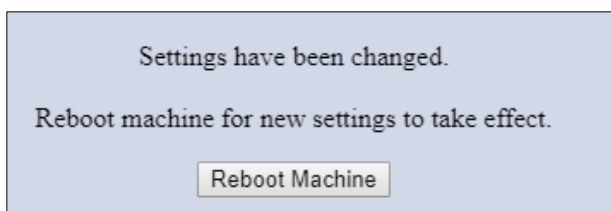
2. Navigate to **Properties > Security > Plug-in / Custom Services Settings > Custom Services**:



3. In **Custom Services**, select **Enabled**:



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



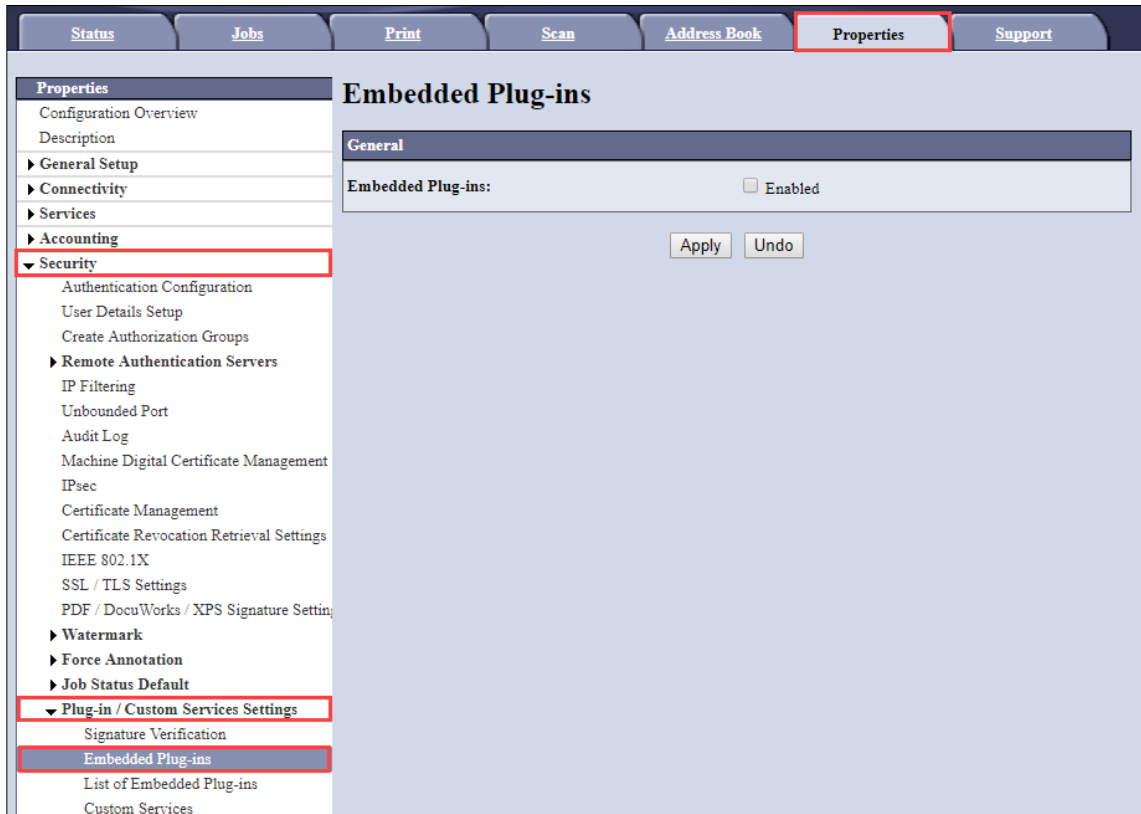
## 8.5 Configure the device's embedded plug-ins settings

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

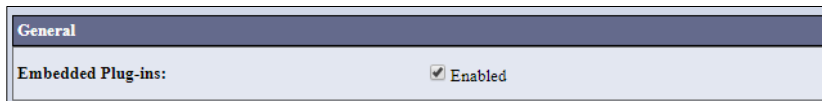
1. Log in to the device's web interface as an administrator.



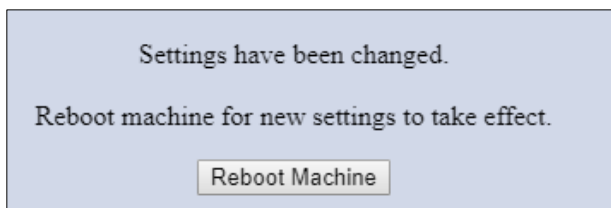
- Navigate to **Properties > Security > Plug-in / Custom Services Settings > Embedded Plug-ins**:



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



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



## 8.6 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**:

The screenshot shows the 'Web Browser Setup' configuration page. On the left is a 'Properties' sidebar with a tree view containing: Configuration Overview, Description, General Setup (with sub-items like Configuration, Job Management, Paper Tray Attributes, Paper Settings, Power Saver Settings, Stored Job Settings, Memory Settings), Web Browser Setup (highlighted), Internet Services Settings, Pool Server Settings, Web Applications Service Setup, Cloning, Alert Notification, Remote Assistance Settings, Connectivity, Services, Accounting, and Security. The main area is titled 'Web Browser Setup' and contains several settings: 'Web Applications Version' is a dropdown menu currently showing 'V5' (highlighted with a red box); 'Delete Persistent Cookie Upon Closing Browser:' is a checkbox labeled 'Enabled'; 'Clear Cache Upon Closing Browser:' is a checkbox labeled 'Enabled'; 'Use Cache:' is a checkbox labeled 'Enabled'; 'Accept Cookies:' is a dropdown menu showing '\*Warn user when cookie is offered'; 'Use TLS1.0:' is a checkbox labeled 'Enabled'; 'When SSL Certificate Verification Fails:' is a dropdown menu showing '\*Warn user before accessing'; 'File Printing:' is a checkbox labeled 'Enabled'; and 'Functional Code:' is a text input field with '0' and '(0 - 65535)' in parentheses. At the bottom right of the main area are 'Apply' and 'Undo' buttons.

4. Click **Apply**.

## 8.7 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**:

The screenshot shows the 'Authentication Configuration > Step 1 of 2' page. The 'Properties' sidebar on the left has 'Security' expanded, and 'Authentication Configuration' is highlighted with a red box. The main area is titled 'Authentication Configuration' and contains settings: 'Login Type:' is a dropdown menu showing '\*Customized Login'; 'Print Stored File from Folder:' is a checkbox labeled 'Enabled'; 'Folder to PC / Server:' is a checkbox labeled 'Enabled'; 'Non-account Print:' is a checkbox labeled 'Enabled'; 'Guest User:' is a dropdown menu showing '\*Off'; 'Guest Passcode:' is a text input field with asterisks; and 'Retype Guest Passcode:' is a text input field with asterisks. A 'Next' button is located to the right of the 'Retype Guest Passcode' field. At the bottom right of the main area are 'Apply' and 'Undo' buttons.

3. Click **Next**.

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

**Authentication Configuration > Step 2 of 2**

**Authentication - (Required)**

Authentication System: [Configure...](#)

Kerberos Server: [Configure...](#)

SMB Server: [Configure...](#)

LDAP Server: [Configure...](#)

LDAP User Mappings: [Configure...](#)

LDAP Authentication: [Configure...](#)

LDAP Authorization Access: [Configure...](#)

Custom Filters: [Configure...](#)

**Access Control**

Device / System Settings Access: [Configure...](#)

**Service Access:** [Configure...](#)

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

**Authentication required for:**

**Installed Services**

[Lock All](#) [Unlock All](#)

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:

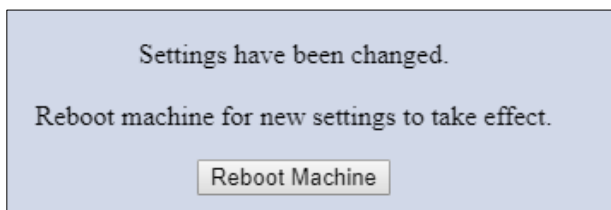
Web Applications:

- 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.

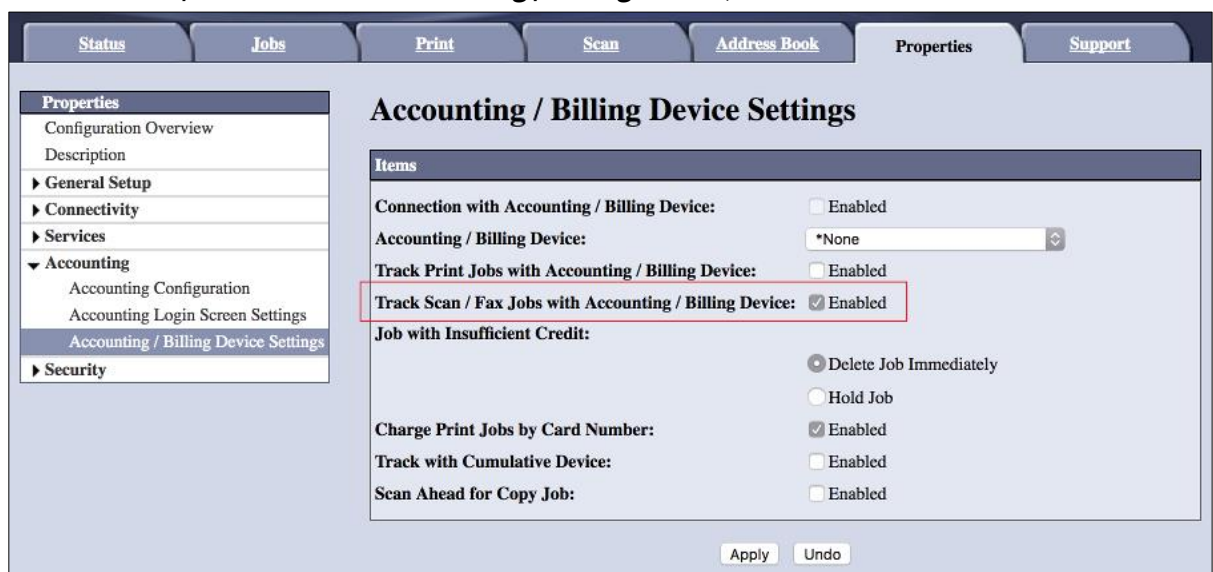
5. In **Print**, select **Unlocked**.
  6. For the other device jobs, select the appropriate **Authentication Access (Locked or Unlocked)**:
    - **Unlocked** - This allows unauthenticated users to access the device job.
    - **Locked** - This allows only authenticated users to access the device job.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



## 8.8 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**:

