

KYOCERA Net Manager Embedded

2024.02

KNMEMBKDEN101



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KYOCERA Net Manager Embedded Terminal 10.1

The **KNM** Embedded terminal is a software application developed on the Kyocera HyPAS platform (Hybrid Platform For Advanced Solutions). It enables simple management of print jobs on a touchscreen display and offers a number of advanced features: multiple login options, scanning and copying with a single touch, credit, quota, project accounting, and many others. It can communicate with multiple types of USB card readers.

All the files are stored in the **KNM** directory and the device exchanges data with **KNM** via the HTTPS protocol.

The terminal can be remotely installed from the **KNM** Web administrator interface or by directly uploading it on the printing device using a USB flash drive.

1 Release Notes

KYOCERA Net Manager Embedded terminal 10.1

- Minimum requested support date: **1 February 2023**

1.1 10.1 RTM

17 January, 2024

Improvements

- Due to security reasons all jobs will be discarded from the device when user logs out. This feature is enabled by default and it is possible to disable it in Kyocera specific parameters in Configuration profiles.
- Easy Scan: If you change the scan parameters, you can reuse them for another scan. The parameters are reset only when you return to the Top Menu.
- Font size is improved on devices with the WebKit browser.
- Logging during the time when machine is asleep was reduced.
- Login screen and Top Menu elements are rounded on devices with WebKit browser.
- Quota status pop-up message improved with extended details.
- UI on Admin login screen improved for devices with small device screen.

Bug Fixes

- "Application log queue full, older message may be overwritten." error message has been displayed in the server log.
- Arrows for displaying the hidden settings on full screen mode aren't displayed on Kyocera Taskalfa MZ4000/MZ3200.
- Built-in parameter %number% for Fax Server Easy scan destination isn't requested, this parameter has to be defined manually in Easy scan parameters.
- Cashed user credentials for offline login aren't deleted after specified time.
- Credit balance and job cost are not fully displayed in Job Options.
- Custom options field is missing in the Printer Configuration Profile.
- Easy Print job options aren't translated into languages other than English.
- Easy scan: Continuous scan failed from glass if the continuous scan started from the feeder with duplex enabled.
- Fax number is displayed truncated after 5 numbers.
- It is not possible to select a job in the job list by clicking the check-box.
- Job Roaming: Button for downloading a remote job isn't displayed.
- Labels on Top Menu Terminal actions are moved higher after usage of the Terminal action.
- Logout in offline mode is not possible.
- Long Terminal Action title may be truncated in NetFront browser devices.
- Number of copies in Easy copy parameter wasn't displayed on the device panel.
- Number of pages is covered by the name of the job if the job is zoomed in Job preview.
- PNG and TIFF files are displayed in Easy Print folder, but it is not possible to select and print them.
- Printing via Desktop Client to direct queue fails with projects enabled.
- QR code is not properly displayed on devices with small screens.
- QR code may disappear on the Login page after server upgrade.
- Server hostname/IP Address is displayed incorrectly on older devices.
- Some Chinese translations are missing.
- Some languages in Language selection feature were displayed without Capital letter.
- Some pages have a huge font size.
- The Login page is not displayed if you logout from the ID Card Copy page.

- The server part of the terminal package loses stability with large numbers of devices.
 - There is an error when printing via direct queue and quota is enabled.
 - USB Scan Terminal Action is disabled after performing print, copy, or scan operation.
 - Store in USB memory policy isn't applied.
 - The last item in the job list does not fit the screen on devices with small screen.
-

1.2 10.1 RC 1

31 July, 2023

Improvements

- Displaying of the time when the job was spooled/printed in My jobs was changed to the "XX seconds/minutes/hours ago" format.
- Keyboard/QR code switch on Login screen was improved. Only the non-used method is displayed.

Bug Fixes

- It wasn't possible to change the duplex parameter for Easy print.
 - "Job record saving failed" error message was displayed in the server log after Easy scan.
 - User was not returned to the Top menu from Panel Scan or Panel USB when the operation was finished if quota was reached.
-

1.3 10.1 Beta

23 June, 2023

Improvements

- **NEW FEATURE** Easy Print is supported.
- **NEW FEATURE** Folder browsing for Easy Scan is supported.
- **NEW FEATURE** Job preview on the device panel is implemented.
- Installation Initiated by the terminal is supported. Print server 10.1 patch 3+ or Print server 10.2 Beta 2+ is required.
- UI improved.

Changes

- **KNM** Embedded terminal 10.1+ can be used on devices with Java 1.8+ only.

2 Supported Printing Devices

ECOSYS Series	Color/B&W	Device type	Full Screen
ECOSYS P4060dn	B&W	Printer	
ECOSYS P8060cdn	Color	Printer	
ECOSYS M2640idw	B&W	Multifunction printer	
ECOSYS M3145idn	B&W	Multifunction printer	
ECOSYS M3645idn	B&W	Multifunction printer	
ECOSYS M3655idn	B&W	Multifunction printer	
ECOSYS M3660idn	B&W	Multifunction printer	
ECOSYS M3860idn	B&W	Multifunction printer	
ECOSYS M3860idnf	B&W	Multifunction printer	
ECOSYS M4125idn	B&W	Multifunction printer	
ECOSYS M4132idn	B&W	Multifunction printer	
ECOSYS M4226idn	B&W	Multifunction printer	
ECOSYS M4230idn	B&W	Multifunction printer	
ECOSYS M6230cidn	Color	Multifunction printer	
ECOSYS M6235cidn	Color	Multifunction printer	
ECOSYS M6630cidn	Color	Multifunction printer	
ECOSYS M6635cidn	Color	Multifunction printer	
ECOSYS M8124cidn	Color	Multifunction printer	
ECOSYS M8130cidn	Color	Multifunction printer	

ECOSYS Series	Color/B&W	Device type	Full Screen
ECOSYS M8224cidn	Color	Multifunction printer	
ECOSYS M8228cidn	Color	Multifunction printer	
ECOSYS MA3500cix	Color	Multifunction printer	Yes
ECOSYS MA3500cifx	Color	Multifunction printer	Yes
ECOSYS MA4000cix	Color	Multifunction printer	Yes
ECOSYS MA4000cifx	Color	Multifunction printer	Yes
ECOSYS MA4500ix	B&W	Multifunction printer	Yes
ECOSYS MA6000ifx	B&W	Multifunction printer	Yes
ECOSYS MA5500ifx	B&W	Multifunction printer	Yes
ECOSYS MA4500ifx	B&W	Multifunction printer	Yes
TASKalfa Series	Color/B&W	Device type	Full Screen
TASKalfa 308ci	Color	Multifunction printer	
TASKalfa 351ci	Color	Multifunction printer	
TASKalfa 352ci	Color	Multifunction printer	
TASKalfa 358ci	Color	Multifunction printer	
TASKalfa 408ci	Color	Multifunction printer	
TASKalfa 508ci	Color	Multifunction printer	
TASKalfa 2510i	B&W	Multifunction printer	
TASKalfa 3011i	B&W	Multifunction printer	
TASKalfa 3212i	B&W	Multifunction printer	

TASKalfa Series	Color/B&W	Device type	Full Screen
TASKalfa 3511i	B&W	Multifunction printer	
TASKalfa 4002i	B&W	Multifunction printer	
TASKalfa 4003i	B&W	Multifunction printer	
TASKalfa 4004i	B&W	Multifunction printer	Yes
TASKalfa 4012i	B&W	Multifunction printer	
TASKalfa 4020i	B&W	Multifunction printer	
TASKalfa 4500i	B&W	Multifunction printer	
TASKalfa 4501i	B&W	Multifunction printer	
TASKalfa 5002i	B&W	Multifunction printer	
TASKalfa 5003i	B&W	Multifunction printer	
TASKalfa 5004i	B&W	Multifunction printer	Yes
TASKalfa 6002i	B&W	Multifunction printer	
TASKalfa 6003i	B&W	Multifunction printer	
TASKalfa 6004i	B&W	Multifunction printer	Yes
TASKalfa 7002i	B&W	Multifunction printer	
TASKalfa 7003i	B&W	Multifunction printer	
TASKalfa 7004i	B&W	Multifunction printer	Yes
TASKalfa 8002i	B&W	Multifunction printer	
TASKalfa 8003i	B&W	Multifunction printer	
TASKalfa 9002i	B&W	Multifunction printer	

TASKalfa Series	Color/B&W	Device type	Full Screen
TASKalfa 9003i	B&W	Multifunction printer	
TASKalfa 2460ci	Color	Multifunction printer	
TASKalfa 2552ci	Color	Multifunction printer	
TASKalfa 2553ci	Color	Multifunction printer	
TASKalfa 2554ci	Color	Multifunction printer	Yes
TASKalfa 3060ci	Color	Multifunction printer	
TASKalfa 3252ci	Color	Multifunction printer	
TASKalfa 3253ci	Color	Multifunction printer	
TASKalfa 3550ci	Color	Multifunction printer	
TASKalfa 3551ci	Color	Multifunction printer	
TASKalfa 3552ci	Color	Multifunction printer	
TASKalfa 3553ci	Color	Multifunction printer	
TASKalfa 3554ci	Color	Multifunction printer	Yes
TASKalfa 4052ci	Color	Multifunction printer	
TASKalfa 4053ci	Color	Multifunction printer	
TASKalfa 4054ci	Color	Multifunction printer	Yes
TASKalfa 5052ci	Color	Multifunction printer	
TASKalfa 5053ci	Color	Multifunction printer	
TASKalfa 5054ci	Color	Multifunction printer	Yes
TASKalfa 6052ci	Color	Multifunction printer	

TASKalfa Series	Color/B&W	Device type	Full Screen
TASKalfa 6053ci	Color	Multifunction printer	
TASKalfa 6054ci	Color	Multifunction printer	Yes
TASKalfa 7052ci	Color	Multifunction printer	
TASKalfa 7054ci	Color	Multifunction printer	Yes
TASKalfa 7353ci	Color	Multifunction printer	
TASKalfa 8052ci	Color	Multifunction printer	
TASKalfa 8353ci	Color	Multifunction printer	
TASKalfa PA4500ci	Color	Printer	
TASKalfa MA3500ci	Color	Multifunction printer	Yes
TASKalfa MA4500ci	Color	Multifunction printer	Yes
TASKalfa MZ4000i	B&W	Multifunction printer	Yes
TASKalfa MZ3200i	B&W	Multifunction printer	Yes

3 Before the installation

Requirements

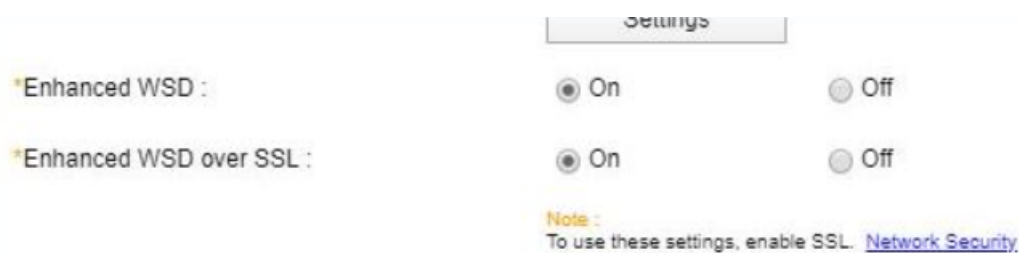
The proper function of the **KNM** embedded terminal depends on the below:

- .NET 4.7.2 or higher needs to be installed on the **KNM** print server.
- The latest firmware needs to be installed on the printing device.
- The printing device's IP or Hostname must be valid.
- Kyocera printing devices have to be equipped with either an SSD, HDD, or an SD card to enable the installation of the **KNM** embedded terminal.
- The correct time and date must be set on the printing device to avoid issues with the Scan to Me functionality.
- **KNM** Embedded terminal 10.1 is supported on **KNM** Print server 10.1 and newer.
- Certificates using hash SHA-1 are no longer supported, SHA-2 or newer has to be used.
- ECOSYS M2640idw requires the optional package Option RAM 1GB or more, and an SD card. Contact your device vendor about this item.

i For information about communication protocols and ports, check the **KNM** Installation guide.

Before installing the **KNM** embedded terminal package on the **KNM** Server, the following settings need to be manually changed on the printing device's Web User Interface:

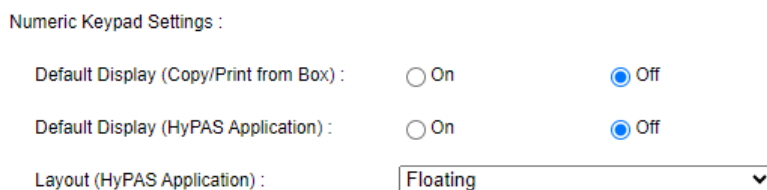
- Go to the Kyocera device Web UI > Network settings > Protocol > Other Protocols: Enhanced WSD, Enhanced WSD over SSL, and set them both to **ON**.



- Go to the Kyocera device Web UI > Security settings > Network Security > Secure Protocol Settings: Enhanced WSD Security, and select **Secure Only (Enhanced WSD over SSL)**.



- Go to the Kyocera device Web UI > Device Settings → System → Default Display (HyPAS Application) and set to **OFF**. This will prevent issues with the on-screen keypad.



4 Installation

The easiest way to install the **KNM** Embedded terminal is via remote installation from the **KNM** Web administrator interface. This method is very simple and it is preferable, especially when you need to install the terminal on a large number of printing devices, since you can install multiple devices in a batch.

You do this by creating separate printer discoveries and adding a configuration profile to any one of them. At the same time, you can assign the discovered printers to a group and/or queue.

Another possibility is to create a remote installation for just one printer and place it in a direct queue.

Before the installation, make sure that the server hostname/IP address in **KYOCERA, Settings, Network** is correct. If it's not, which could happen after a license update or upgrade, the remote setup will fail.

4.1 Remote installation via Printer Discovery

1. Follow the instructions in the **KNM** Installation guide to create and configure a Printer Discovery.
2. Then, you should create a configuration profile to attach to your Printer Discovery.
3. The **Kyocera** section is displayed on the configuration profile's terminal tab when the **KNM** terminal package is installed on the **KNM** server. Applying the changes in the Kyocera section on the terminal require a force remote configuration of the device.

The screenshot shows a configuration window for Kyocera with the following settings:

- Local Admin Pin:** An empty text input field. Description: PIN used for logging in to the administration screen at supported device. Set empty to use terminal's default.
- Log debug messages:** An unchecked checkbox. Description: Enables Debug level of logging.
- Language Selection:** An unchecked checkbox. Description: Allows user to change login screen language.
- Display numeric keypad:** A checked checkbox. Description: Allows to display or hide software numeric keypad on terminal login screen.
- ID Card reader type:** A dropdown menu set to "Internal". Description: Internal card reader is connected directly to the printer. External card reader communicates with server over ethernet.
- FeliCa Card Reader Parameters:** An empty text input field. Description: Allows to set specific parameters for FeliCa Card Readers.
- Display My Jobs action right after logging in:** An unchecked checkbox. Description: Allows to set My Jobs page as the 1st page instead of Top Menu after logging in.
- Coverage accounting:** An unchecked checkbox. Description: Use 3tier coverage level price for accounting of color pages. If device doesn't have coverage accounting capability, fullcolor price will be used.
- Discard pending jobs on logout:** A checked checkbox. Description: When enabled, queued jobs will be discarded from the print device on user logout. Applicable when Stop sending jobs after user logout is enabled.
- Custom options:** An empty text input field. Description: Codes to activate custom features of Embedded application.

At the bottom, there are two buttons: "Save" (with a checkmark icon) and "Cancel".

- It is possible to change the **Local Admin Pin**. When the field is empty, the default value **1087** is used.
- **Log debug messages** allows to enable/disable the Debug level of logging. If the setting is enabled, the terminal will generate additional log information for auditing and troubleshooting purposes.

⚠ This setting is applied to all the printers in this configuration profile, which can cause a heavier load on the Server. If you want the setting **Log debug messages** to be applied to just one printer, a separate Configuration profile needs to be created just for this printer.

- Check the **Language Selection** checkbox if you want to give the users the ability to change the screen language when they log in to the terminal.
- Check the **Display numeric keypad** checkbox if you want a numeric keypad to be visible on the terminal's login screen.
- Choose your **ID Card reader type** from *Internal* or *External*. An internal card reader is directly connected to the printer. An external one communicates with the server over ethernet.
- It is possible to configure **FeliCa Card Reader Parameters** when using a FeliCa card reader.
- Check the **Display My Jobs action right after logging in** checkbox for displaying the My Jobs terminal action immediately after login.

- Check the **Coverage accounting** checkbox for using the 3-tier coverage level price for accounting of color pages. If the device doesn't have the coverage accounting capability, full color price will be used. Coverage accounting has to be supported by the device's firmware.
- Check the **Discard pending jobs on logout** checkbox for cancelling all jobs in progress during logout. Due to security reasons this option is enabled by default.
- It is possible to specify **Custom options**. With this parameter, the administrator can unlock some hidden features of the terminal which are available only to specific customers and might require specific device/firmware.


4.2 Remote installation via manual setup

The terminal is automatically assigned within the remote installation on the **KNM** Web Administrator interface, but if you perform a manual installation instead, you have to assign the terminal to the printing device on the device's properties panel on the **Printers** main tab. This needs to be done for each printing device separately.

- Go to **KYOCERA, Printers**. The printers overview tab opens.
- Right-click on a printer and select **Set configuration profile**. The set configuration profile window opens.
- Select a configuration profile from the drop-down.
- Click **OK**. The profile is added to the properties. You can check it when you right-click the printer and select **Properties**.
- Right-click the printer and select **Activate**.

4.3 Manual installation via USB or a 3rd-party app

Another method of installing an embedded terminal is to upload the installation file from a USB flash drive (or a 3rd-party tool, like Kyocera Net Viewer) and install the application on the printing device system menu and then install the package on the server, assign it to a configuration profile and activate it. This may be convenient if you need to install the terminal to a small number of devices that you have physical access to.

 Most printing devices cannot read flash drives formatted in the NTFS file system. Therefore, it might be necessary to use a USB flash drive formatted to FAT32.

To install:

1. Download the latest **KNM_Kyocera_Terminal-x.x.x_packages.zip** file.
2. Extract the .zip file.
3. Choose the relevant **KNM_Kyocera_Terminal-x.x.x_.pkg** file, change the file's extension from .pkg to .zip, and then extract the .zip file.
4. Copy the **KyoEmbedded.pkg** file from the extracted folder to the root directory of the USB drive.
5. Once copied, **delete** the **KyoEmbedded.pkg** file from the packages folder and change the **KNM_Kyocera_Terminal-x.x.x_.zip** file's extension back to **KNM_Kyocera_Terminal-x.x.x_.pkg**.
6. Install the **KyoEmbedded.pkg** file to the printing device:
 - a. On the device operation panel, press the **System menu** button (or **System Menu/Counter** button on some devices). The System Menu opens.
 - b. On the System Menu, find and tap **Application (Favorites/Application)** on some devices). You are prompted to login as an administrator.

- c. Login as the administrator. The Application menu (or Favorites/Application menu) opens. (In case you are asked to select between the **Local** login and the **Network** login, select **Local** before entering the credentials).
 - d. On the Application menu (or Favorites/Application menu), tap **Application**. The Application sub-menu opens.
 - e. Insert the USB Flash drive with the uploaded installation file, and then tap **+** (or **Add** on some devices) at the upper-right corner of the screen. A dialog box appears, informing about the number of applications that can be installed.
 - f. Tap **OK**. The **Add-Application** menu opens with the **KNM Embedded** item displayed. (In case a different version of the terminal is already installed on the device, **Update Program** is displayed next to the application name. If you update the terminal, its version is changed but all settings are preserved).
 - g. Select the **KNM Embedded** item, tap **Install** at the bottom-left corner of the screen, and then tap **Yes** to confirm the installation. The **Completed** message appears and the **Add - Application** menu is empty. You can tap **Remove Memory** at the bottom of the screen to safely remove your USB flash drive.
 - h. Back on the **Add-Application** menu, tap **End**.
7. Install and activate the package on the server:
 - a. Go to **KYOCERA, Settings, Printers**; Under **Terminal Packages** click **+Add** and upload the **KNM_Kyocera_Terminal-x.x.x_.pkg** package file.
 - b. Create a Configuration profile.
 8. Create a Printer Discovery and activate the printer:
 - a. Create a Printer Discovery, specify the IP range and enable the option **Initiated by terminal** in the Advanced options.

Printer Discovery [Close]

General Actions

Enabled: *

Description:

IP range: Manual

CSV file

Exclude:

Save the printer address as:

> **Printers name template**

∨ **Advanced**

SNMP profile:

SNMP timeout: ms

Initiated by terminal:

When an embedded terminal connects to KYOCERA Net Manager and there is no printer with the same IP address, KYOCERA Net Manager will execute a Printer Discovery whose IP address range matches the IP address of the terminal.

- b. In the Printer Discovery's Actions tab, add a new Action. In the Actions properties, in the **Set configuration profile** select the Configuration profile assigned to the terminal package. In the First run actions section, enable the **Activate** option.

9. Log in to Admin menu.
 - a. Specify the Hostname or IP address of the server and the server port and Save the configuration.
10. After saving the configuration in Admin menu and leaving the Admin menu, the activation of the embedded terminal should start automatically. On the device, the *"Connected to server - Configuring message"* is displayed.
11. The device may be restarted several times during the configuration.

4.4 Additional Settings

The FTP server configuration and the SMTP server configuration are automatically done during the application's installation with remote setup. If the remote setup is used only for changing the configuration of the terminal, these settings aren't modified.

If those settings were not automatically configured, or if you have manually installed the application, the following settings need to be manually changed on the printing device's Web User Interface:

- In order to use **Easy Scan**, the FTP Server has to be manually configured in the device web UI: Kyocera Web UI > Network settings > Protocol > FTP Client (Transmission).

FTP Client (Transmission) : On Off

Port Number : (1 - 65535)

FTP Encryption TX : On Off

- In order to use **Panel Scan**, the SMTP server has to be manually configured in the device web UI: Kyocera Web UI > Function settings > Email > SMTP.

SMTP

SMTP Protocol : On

Note:
Settings must be made in SMTP (E-mail TX).
[Protocol](#)

SMTP Server Name :

Note:
To specify the server name by domain name, set DNS server. [TCP/IP](#)

SMTP Port Number : (1 - 65535)

SMTP Server Timeout : seconds

Authentication Protocol : ▾

SMTP Security : Off

Note:
Make settings here. [Protocol](#)

Connection Test :

Domain Restriction : ▾

The following settings (available on the printing device web UI) are changed within the remote setup of the printing device:

Setting	Value
JOB_AUTHORIZATION_MODE	ON
SERVER_AUTHENTICATION_MODE	NETWORK
SERVER_HOSTNAME	KNM server address
SERVER_PORTNUMBER	PM Server authentication port (Settings > Network)
JOB_ACCOUNTING	ON
AUTO_PANEL_RESET	OFF

Setting	Value
CERTIFICATE_VERIFICATION	ON, if a custom certificate is installed. OFF, if the default certificate is installed
UNKNOWN_ID_JOB	ON
SECURE_PROTOCOLS_SSL	ON
SECURE_PROTOCOLS_HTTP_SECURITY	ON
SECURE_PROTOCOLS_IPP_SECURITY	ON
IPP_SECURITY	ON
IPP_SECURITY_PORT	443
IP4_FILTERS	KNM server address 255.255.255.255 LPD IPP IPPS RAW_PORT
SMTP_PROTOCOLS	ON
SMTP_SERVER_NAME	KNM server address
SMTP_PORT_NUMBER	KNM SMTP port (Settings > Network)
SMTP_AUTHENTICATION_PROTOCOL	OFF
SMTP_SECURITY	OFF, if Enable only secure connection is disabled in KNM STARTTLS, if Enable only secure connection is enabled in KNM
SMTP_SERVER_TIMEOUT	config.ini > [SMTPServer] > timeout
SMTP_EMAIL_SIZE_LIMIT	config.ini > [SMTPServer] > maxMessageSize
SMTP_SENDER_ADDRESS	device@KNM.local
SLEEP RULE: NETWORK	OFF (On Kyocera devices supporting this setting)
SLEEP RULE: APPLICATION	OFF (On Kyocera devices supporting this setting)

4.5 Device Activation via WiFi card

It is possible to activate a device using a WiFi card, when the WiFi card includes a complete SNMP protocol.

An embedded terminal can also be used with the WiFi card, as long as the WiFi card is able to access HyPAS.

Currently supported WiFi cards with complete SNMP protocol and access to HyPAS:

- IB-35
- IB-36

4.6 Communication Security

Certificates using hash SHA-1 are no longer supported, SHA-2 or newer has to be used.

In the case that incorrect SSL certificates are used, the *"Logging in failed - Invalid SSL certificate - Secure connection to server refused"* message is displayed after a login attempt.

Once you change the certificate on the server, a force remote configuration is required. After the force reconfiguration, a device reboot might also be required.

ⓘ For proper behavior, it is important to configure time settings (time zone, and date and time settings) of the device to the same values as the server.

In the case that *IP address* is used for the terminal's installation instead of the *server's hostname* in your Configuration profile and **Allow unsecure communication** is disabled in **KNM Easy Config**, the IP address of the server has to be added as a **Server alternative name** in the **Communication Security** settings in the **KNM** web administrator interface:

The screenshot shows a configuration window titled "Profile 1" with tabs for "General", "Terminal", and "Printers". The "General" tab is active. Fields include "Name" (Profile 1), "Price List" (dropdown), and "Fax module" (checkbox). A "Printer Credentials" section is collapsed. The "Network" section is expanded, showing "SNMP profile" (SNMP v3) and "KYOCERA Net Manager server address" (IP address). A "Set up IP filters" checkbox is present. "Save" and "Cancel" buttons are at the bottom. A note states "Fields marked by * are mandatory."

1. In the **KNM** web administrator interface, go to **Settings, Network, Communication Security**.

2. In the **Server alternative names** field, enter the IP address of the server and click **Generate new Server Certificate**.

Communication Security

KYOCERA Net Manager secures communication with certificates which is an industry standard. Choose how certificates are managed.

Certificate authority mode: *

- Built-in Certificate Authority**
Server and clients are secured by certificates generated by the built-in certificate authority (CA). The CA certificate is self-signed. Export the CA certificate and install it to clients so they trust KYOCERA Net Manager Server. If the CA certificate is compromised, generate a new one. Server certificate will be regenerated automatically.
[Generate new CA certificate](#) [Export CA certificate](#)
- Company Certificate Authority**
Your company CA generates an intermediate CA certificate which KYOCERA Net Manager uses to sign certificates for the server and clients. To generate an intermediate CA certificate create Certificate Signing Request (CSR), sign it by your CA and finish CSR by importing signed certificate. Server certificate will be regenerated automatically.
- Manual Certificate Management**
Provide a certificate for the KYOCERA Net Manager Server. KYOCERA Net Manager creates no certificates, all certificates are managed by you.

Server alternative names:

Comma separated list of DNS names and/or IP addresses. To set new Subject Alternative Name (SAN) for KYOCERA Net Manager Server generate new Server certificate. Server hostname is included automatically.

[Generate new Server certificate](#)

3. Once the certificate is generated, you get the following message: *Certificates were changed. Click Save to preserve the changes.* Click the **Save** button.
4. After the changes are saved, a force configuration, printer re-activation, and a device reboot are required in order to apply the updated certificate.

4.7 Changing login methods

If you want to change login methods after the installation, you need to edit the configuration profile and reactivate your printer(s).

You can choose between two types of login: simple login and two-step authentication. With the simple login option, you can select up to three methods of login, and with the two-step authentication, you can select a combination of the login methods.

To change the login type:

1. In the **KNM Web administrator** interface, go to **KYOCERA, Settings, Configuration Profiles**.
2. Select the profile you want to change and click **Edit** on the main ribbon (or right-click and **Edit**, or double-click). Choose the login method in the pane to the right.
3. Click **Save**. A pop-up window tells you that you need to activate the printers again.
4. Click **OK** if you want to re-activate all the printers connected to this profile or click **Skip** if you only want to change the settings for specific printers.
5. If you chose to skip, go to **KYOCERA, Printers** to open the **Printers** overview. Select the printer(s) to change, right-click and select **Activate**.
6. Restart the printing device(s).

4.8 Selecting languages

The language selected as the default one on the **KNM** server is also used on all the embedded terminals. You can change the language that will be used on individual user sessions on the terminals.

The default language:

The default language of the terminal is the default language set on the **General** settings tab. For more information, see *General Settings* in the **KNM** Installation guide.

The user's language:

You can set different languages for users by editing their properties panels on the **Users** main tab. These languages are then used on their user sessions on the embedded terminal. For more information, see *Editing user accounts* in the **KNM** Installation guide.

4.9 USB Card Reader Connection

To enable the use of a USB card reader, the Kyocera Card Authentication Kit (B) has to be activated on the printing device. The Kyocera Card Authentication Kit (B) is an optional plugin for all Kyocera printing devices based on HyPAS technology. If it is enabled and a supported card reader is connected to the USB slot, **KNM** can read data acquired by the reader and use them for user identification. For the full unlimited version of CAK(B), contact your Kyocera supplier.

You can run the kit in demo mode for 30 days; the demo can be executed 3 times on each device.

If the CAK(B) is enabled but no compatible reader is connected to the USB slot, the *ID card reader not connected* permanent error message is displayed on the panel.

Activating the Card Authentication Kit (B)

1. On the terminal's login screen, tap the **KNM** icon, and then log in as the **KNM** administrator.
2. On the Admin Menu screen, tap the **Unlock Panel** button. The printing device's default screen opens.
3. On the upper-left corner of the device's physical board, press the **System menu** button (or **System Menu/Counter** button on some devices). The System Menu opens.
4. On the System Menu, find and tap **System** (or **System/Network** on some devices). The System menu opens.
5. On the System menu, find and tap **Optional Function**. The Optional Function menu opens.
6. On the Optional Function menu, select **CARD AUTHENTICATION KIT** and tap **Activate** at the bottom-left corner of the screen. You are prompted to enter the license code for the application.
7. If you have the CAK(B) license code, enter it and confirm it. If you have no license code and just want to check the functionality, select **Trial**.

4.9.1 Supported Card Readers

Name	Vendor	Additional Information
MyQ-20-TR410U	Elatec	LF reader with standard formats (EM4102, Hitag, Tiris, Pyramid,...).
MyQ-20-TR411U	Elatec	LF reader with advanced formats (HID Prox, Cotag, Indala,...).

Name	Vendor	Additional Information
MyQ-20-TR420U	Elatec	HF reader with standard formats (Mifare, ISO14443, ISO15693, Felica,...).
MyQ-20-TR450U	Elatec	Dual reader with standard HF and LF formats, SmartCard.
MyQ-20-TR460U	Elatec	Dual reader with standard HF and LF formats.
MyQ-20-TR461U	Elatec	Dual reader with advanced formats (HID Prox, Cotag, Indala,...).
MyQ-20-TR462U	Elatec	Dual reader with advanced formats (HID Prox, Cotag, Indala,...).
MyQ-20-TR470U	Elatec	Dual reader with standard HF and LF formats, Legic Prime
MyQ-20-TR480U	Elatec	Dual reader with standard HF and LF formats, BLE
MyQ-20-TR520U	HID	HF reader with advanced formats (Mifare, ISO14443, ISO15693, iClass, Seos).
MyQ-20-TR530U	HID	Dual reader with advanced formats (HID prox, Indala, iClass, Seos), BLE, compact case.
MyQ-20-TR540U	HID	Dual reader with advanced formats (HID prox, Indala, iClass, Seos).
MyQ-20-TR541U	HID	Dual reader with advanced formats (HID prox, Indala, iClass, Seos), BLE.
MyQ-20-TR640U	RFIDeas	Dual reader with standard HF and LF formats.
MyQ-20-TR643U	RFIDeas	Dual reader with standard HF and LF formats, compact case.
Omnikey 5427	HID	Dual frequency reader that supports iCLASS Seos®, iCLASS SE®, iCLASS®, MIFARE®, Indala Prox, and HID Prox.
Omnikey 5127	HID	125 kHz & 13.56 MHz Proximity Reader.

 For further information about supported card readers, contact your support.

4.10 Kyocera Service

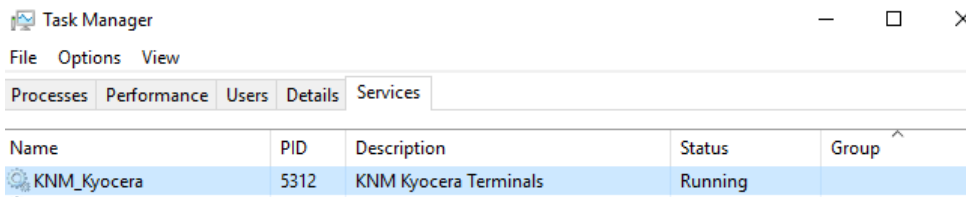
The Kyocera service is an integral part of the embedded terminal's installation. It is added to Windows services within the upload of the Kyocera Embedded installation package to the **KNM** server and remains there as long as the installation package stays uploaded on the server.

The service is necessary for the proper terminal functionality; if it is not running, the embedded terminal cannot communicate with the **KNM** server. With disabled communications, users cannot log in and the terminal cannot be remotely set up (reinstalled, uninstalled). If the communication with the **KNM** server is interrupted, it is possible to use the terminal only if the Device spooling and Offline login features are enabled.

The service can be started and stopped on the **Services** tab of the **KNM Easy Config** application, where it's called *Kyocera Terminals*. For details about the application, see **KNM Easy Config** in the **KNM Print Server** guide.



You can also check the current status of the service in Windows Task Manager, where it is called *KNM_Kyocera*.




4.11 Update and Uninstallation

4.11.1 Updating the terminal

Updating the terminal is done on the **KNM** web administrator interface. **KNM Server 8.2 patch 6** or higher, and **KNM Embedded 8.1+** are required.

 Check Terminal packages in the **KNM** Installation guide for further details.

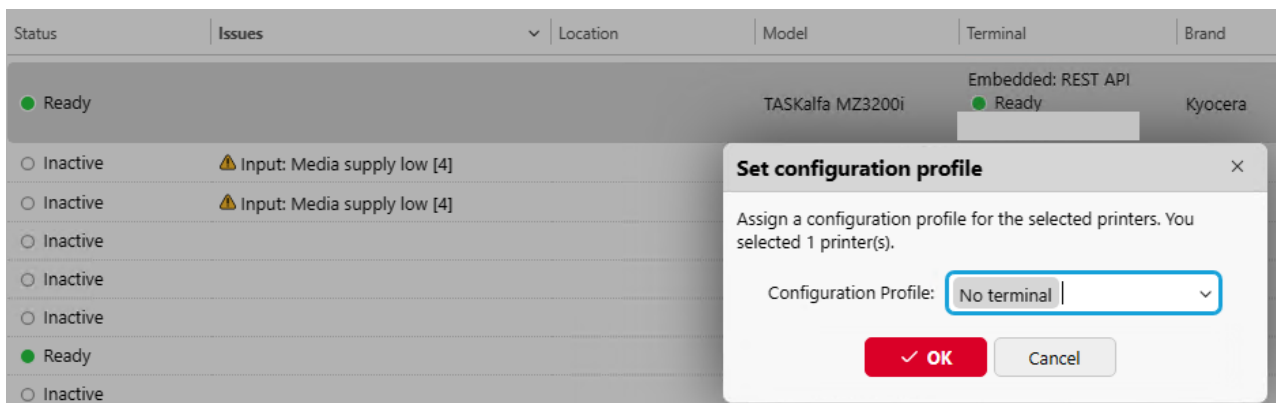
 For older **KNM Server** or terminal packages versions, **Delete** the installed terminal package, and **+Add** the new one.

4.11.2 Uninstalling the terminal

Uninstalling the terminal via Remote configuration

The terminal can be uninstalled from the server using Remote configuration. During the remote configuration, the application is uninstalled from the device and the connection between the server and the device is cancelled.

1. In the **KNM Web UI** go to **KYOCERA, Printers**.
2. Mark the devices that should be uninstalled.
3. Set their configuration profile to **No terminal** and activate the devices.



Uninstalling the terminal on the device panel

KNM can be uninstalled or deactivated on the Application menu of the printing device's panel. If you choose to deactivate it, you can later reactivate it with its settings restored. The uninstallation (or deactivation) consists of two steps: you have to unlock the panel and then delete (or deactivate) the **KNM** application on the Application menu.

1. On the terminal's login screen, tap the **KNM** icon, and then log on as the **KNM** administrator.
2. On the Admin Menu screen, tap the **Unlock Panel** button. The printing device's default screen opens.
3. At the upper-left corner of the device panel, press the **System menu** button (or the **System Menu/Counter** button on some devices). The System Menu opens.
4. On the System Menu, find and tap **Application** (or **Favorites/Application** on some devices).
5. On the Application menu (or Favorites/Application menu), tap **Application**. The Application sub-menu opens.
6. On the menu, select the **KNM** Embedded application, and then tap **Menu** at the bottom-left corner of screen. The application menu opens.
7. On the menu, tap **Delete** (or **Deactivate**), and then tap **Yes** to confirm the action. The application is deleted (or deactivated) and the MFP Panel default screen opens.

If the application is uninstalled on the device panel, the connection between the server and the device is still established.

Status	Issues	Location	Model	Terminal	Brand
● Ready	⊛ Terminal offline		TASKalfa MZ3200i	Embedded: REST API ● Unreachable	Kyocera

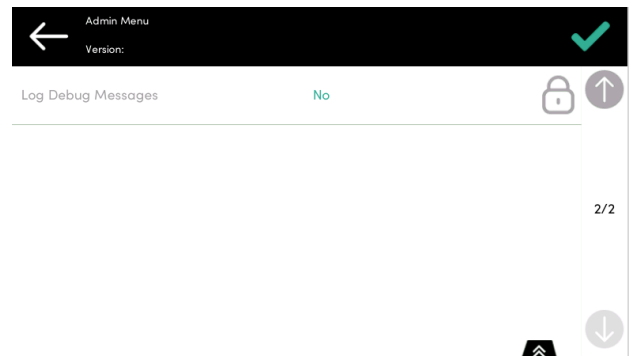
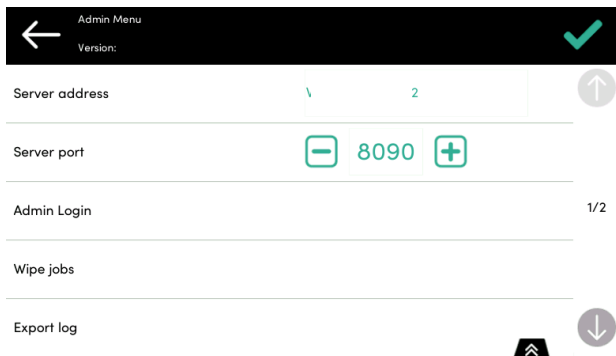
To cancel the connection, the device has to be activated with the **No terminal** configuration profile, described above.

- [-] Uninstallation of the application is also possible remotely via Kyocera Net Admin or the Kyocera Net Viewer application.

5 Admin Menu

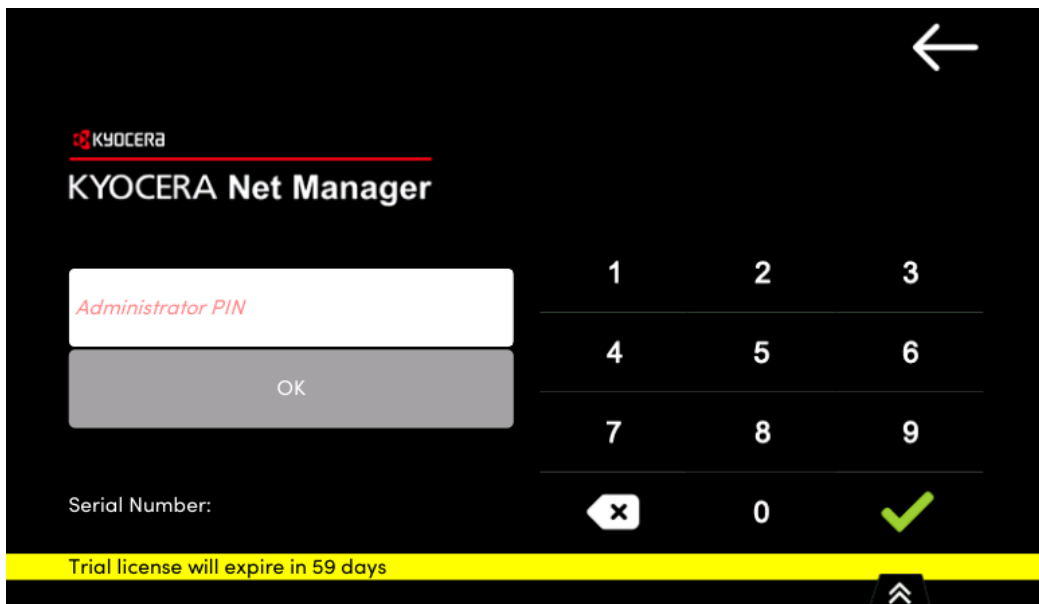
From the terminal's **Admin Menu**, you can administer the terminal and change its settings. The available actions are Admin Login, Wipe jobs, and Export log.

i The **Server address** and Server port can be edited for the usage of Installation Initiated by terminal. The **Log Debug Messages** option is not editable here. Log Debug Messages is only available for checking. These settings can also be configured during the terminal's remote installation in the **KNM** Web administrator interface.



5.1 Entering the Admin menu

To access the admin menu, tap the **KNM** logo in the upper-left corner of the panel and enter the administrator's PIN. The default admin PIN is **1087**.



The device's **Serial Number** is also displayed on this screen.

5.2 Admin Login

Unlocks the printing device panel; with the panel unlocked, the printing device's default screen opens, and all the device features are accessible. Pages printed and scanned in this mode are accounted to the ***unauthenticated** user.

Once the panel is unlocked, the device setup can be accessed by pressing the **System menu** button (or **System menu/Counter** button) on the device's operation panel.

When you open the device's panel using the **Admin Login** button, you are automatically granted administrative rights to all its settings.

By unlocking the panel, you can access the printing device's **Application** menu and uninstall the embedded terminal.

5.3 Hiding the native Copy and Scan buttons

After tapping Unlock Panel, press **System menu** (or **System menu/Counter**) to access **Device Settings**, where you can hide the native Copy and Scan (send) buttons that are present by default from the manufacturer in the upper-left corner on the terminal screen.

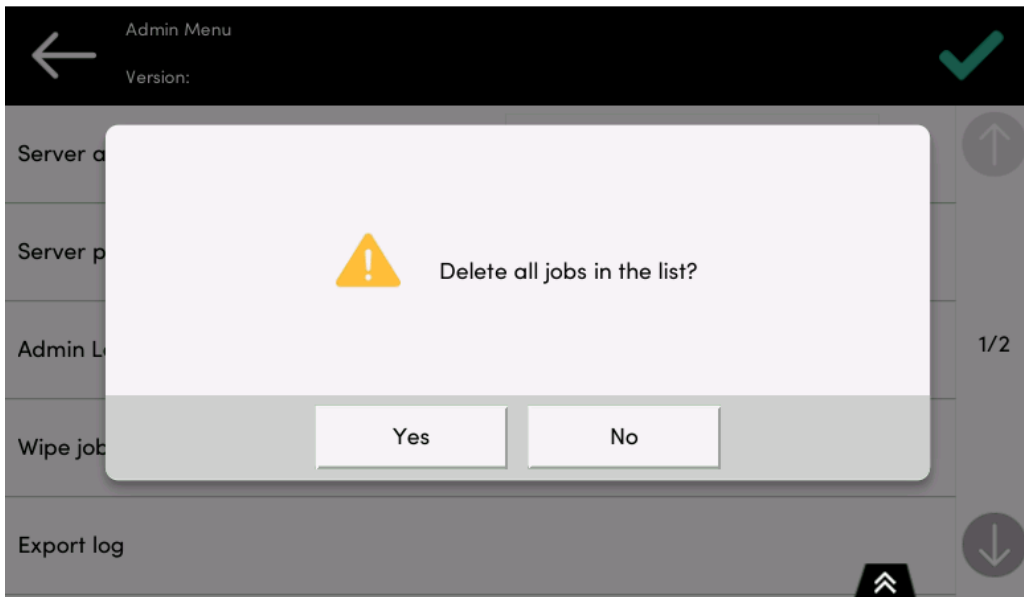
In **Device Settings**, go to **Function Key Assignment** and set all **Keys** to **NONE** (the first option on the list). (This applies to all Kyocera devices with a touchscreen (without a hardware keyboard)). Confirm by tapping **Yes**. The terminal is disabled, and the printing device's default screen opens.

5.4 Wiping Jobs

With the **Local Print Spooling** feature enabled, print jobs are sent directly to a printing device where they wait until they are released by the sending user or until they are deleted from the device.

To delete the print jobs, do the following:

1. On the Admin Menu home screen, tap **Wipe jobs** on the upper-right side. The following window opens:



2. To delete the locally spooled jobs, tap **Yes**. The Admin Menu reopens.

5.5 Exporting the Log



If your support asks you to provide the embedded terminal's log, you can do so using a USB Flash drive.

To export the terminal log, insert the USB Flash drive on the device and tap **Export log** on the Admin Menu.

The log file is exported and uploaded to the USB.

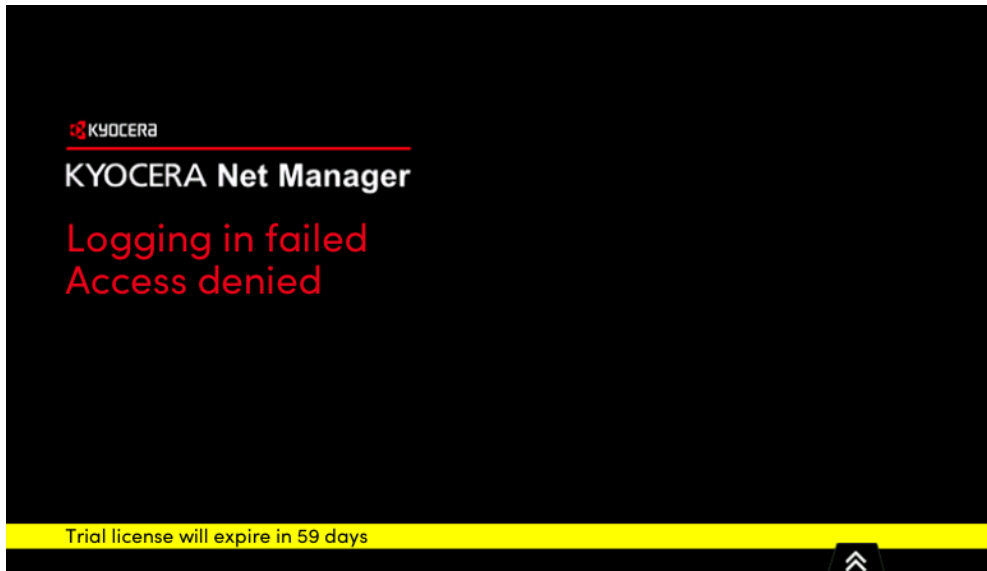
5.6 Log Debug Messages

Log Debug Messages is only information about which debug level is set on the device. If the setting is enabled, the terminal will generate additional log information for auditing and troubleshooting purposes.

Log Debug Messages	Yes	
Log Debug Messages	No	

6 Licenses

The total number of embedded terminals that can run at the same time is equal to the number allowed by the embedded terminal licenses. If the number of embedded licenses at the server is exhausted, the terminal is deactivated. As a result, users cannot log in to this terminal and the **Login failed/Access denied** message appears on the terminal.




To regain access to the terminal, you can add a new license or deactivate one of the currently activated terminals and then, reactivate the printing device on the **KNM** Web administrator interface.

i For information on how to add embedded terminal licenses, activate them, and extend the software assurance period, see *Licenses* in the **KNM** Installation guide.

7 Personalization

On the **Personalization** settings tab in the **KNM** Web administrator interface, under **Terminal personalization**, you can add a **Custom Logo** and select a different **Theme** to change the overall appearance of your Embedded terminal.

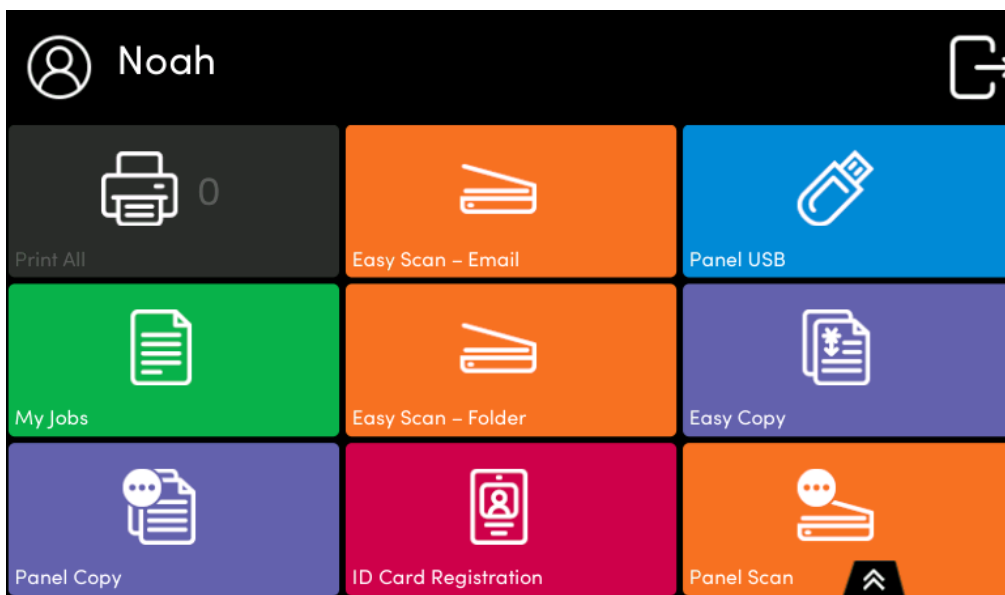
 Check the **KNM** Installation guide for Personalization Settings.

8 Terminal Actions

This topic discusses terminal actions on the **KNM** Embedded terminal and their features.

The default terminal actions are:

- Print All
- My Jobs
- Panel Copy
- Easy Scan — E-mail
- Easy Scan — Folder
- ID Card Registration (only visible if ID Card is selected as a login method)
- Panel USB
- Easy Copy
- Panel Scan



i For information related to terminal action nodes management, check Terminal Actions Settings on the **KNM** Installation guide.

F The **KNM** Embedded terminal supports quasi-parallel user sessions: when one user starts printing and logs out of the terminal, another user can log in and start scanning while the print is still running; similarly, a newly logged user can start printing while the scanning job of the previous user is ending.

The other available terminal action nodes that can be used on the **KNM** Embedded terminal, apart from the default ones mentioned above, are:

- Easy Scan
- Easy Copy
- Unlock Panel
- USB Print

- USB Scan
- Edit Account
- Recharge Credit
- Folder
- Custom Box
- ID Card Copy
- External Workflow
- Easy Print

8.1 Print All

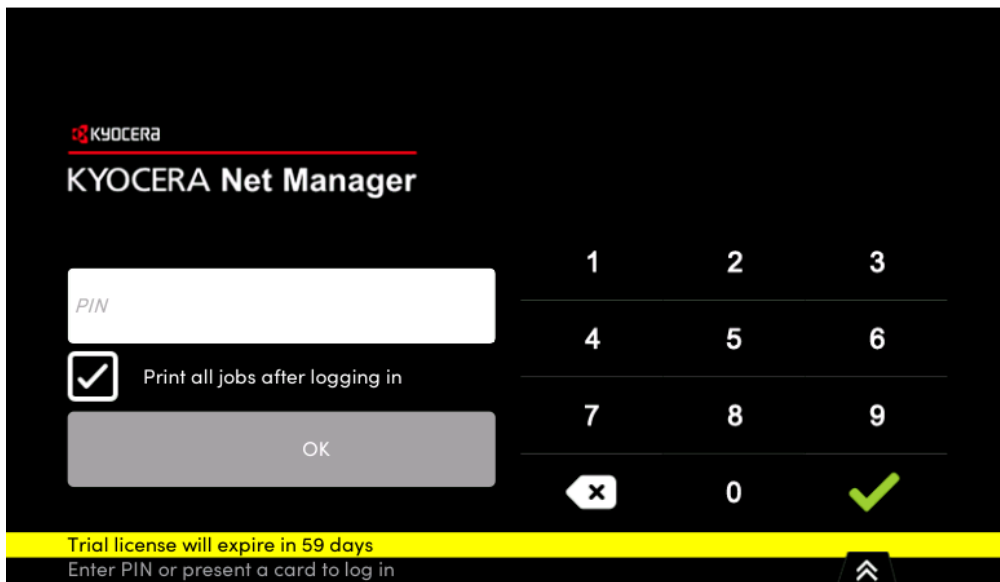
This action prints all jobs that are waiting in queue in the Ready and Paused states, including jobs delegated by other users.

8.1.1 Print all jobs after logging in

As an alternative to the **Print All** terminal action, you can use the **Print all jobs after logging in** feature. Once enabled on the **Printers & Terminals** settings tab, under **General**, all the user's jobs are printed immediately after they log in to an embedded terminal. This way, the user does not have to tap the **Print all** button to print the jobs.

Even if the **Print all jobs after logging in** option is selected on the server, users can disable the feature on the embedded terminal before they log in. This way, each user can individually decide if they want to print the jobs automatically or manually via the **Print all** button.

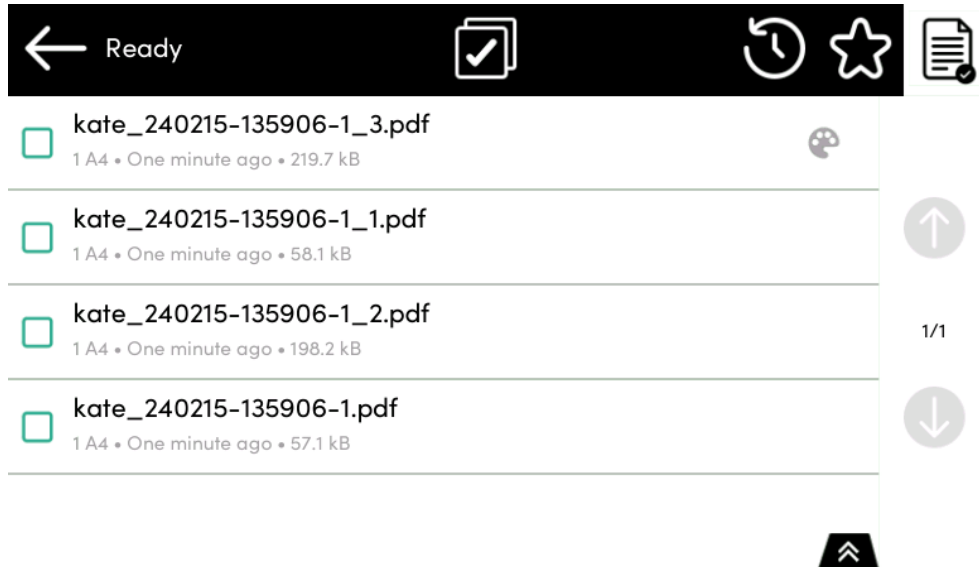
If the user disables the feature on the terminal and does not login in 30 seconds, the terminal screen refreshes with the **Print all jobs after logging in** option selected.



8.2 My Jobs

This terminal action shows all the jobs that can be printed on the printing device. Users can manage their ready, favorite, and printed jobs here.

- **Ready jobs:** This is the initial tab of the **My Jobs** screen. It can be reopened by tapping the page icon at the upper-left corner of the screen. It contains jobs waiting in queue, ready to be printed.
- **Favorite jobs:** Favorite jobs can be displayed by tapping the **star** icon at the upper-left corner of the screen. It contains a list of jobs you have marked as favorites.
- **Printed jobs:** Printed jobs can be displayed by tapping the **clock** icon at the upper-left corner of the screen. It contains a history of your printed jobs.

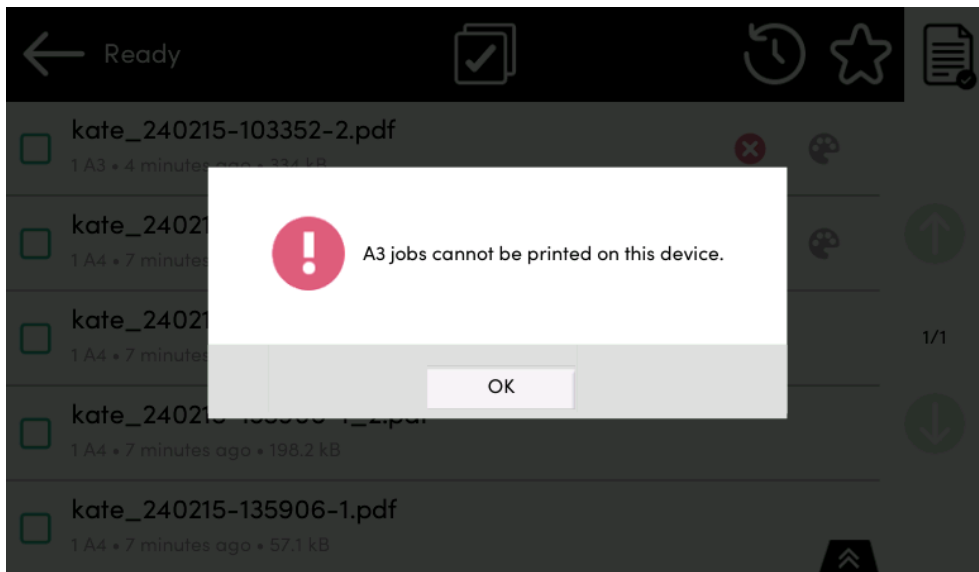


Job Filters

In the **KNM** Web administrator interface, in **KYOCERA, Settings, Printers & Terminals**, under the **General** section, it is possible to **Allow a color job on a B&W printer**, but the job is accounted as B&W. This option is disabled by default.

If a job is not allowed to be printed because the selected format/color is not supported by the device, there will be a red exclamation mark icon next to the job. Clicking the icon displays the reason for the error:

- *Color jobs cannot be printed on this device*, when a color job is spooled to a B&W printer.
- *A3 jobs cannot be printed on this device*, when an A3 job is spooled to an A4 printer.
- *Neither color nor jobs in this format can be printed on this device*, when an A3 and color job is spooled to an A4 and B&W printer.



Managing jobs on the My Jobs screen

To display the available job management options, select the job from the list. The selected print jobs management bar opens at the top of the screen.



On the bar, you can select from the following options:

- **Print:** Tap the printer icon to print the selected jobs.
- **Edit:** Tap the edit icon to edit the print options of the selected jobs. In the **Print options** dialog box, depending on the permissions given by the administrator, the user can select between color or B/W, toner saving options, simplex/duplex options, staple, punch, and change the number of copies. After changing the print options, the user can tap **PRINT** to print the jobs.

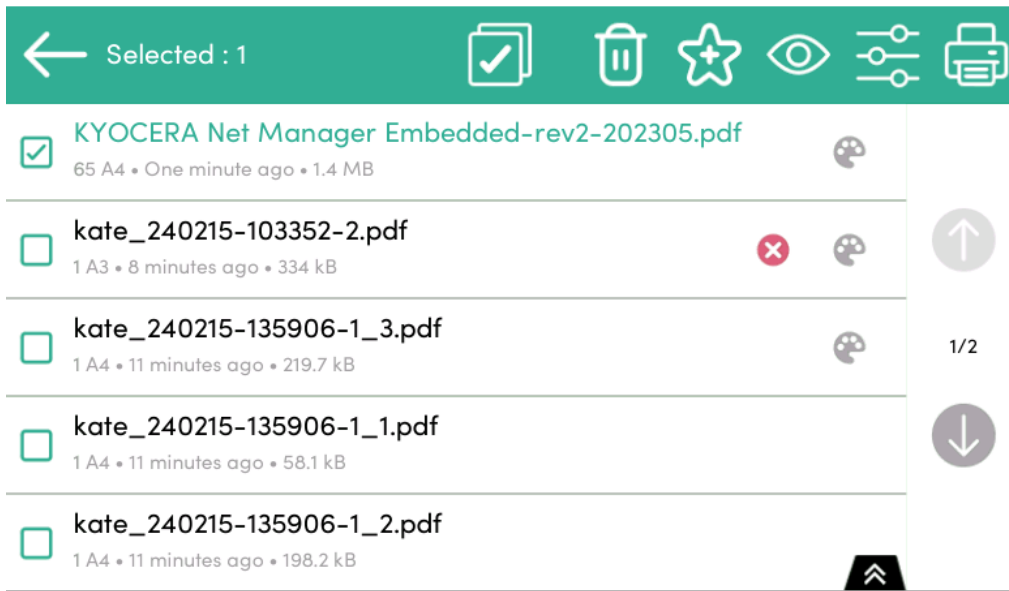


- **Add to favorites:** Tap the star-plus icon to add the selected jobs to your favorites (Visible on the Ready jobs tab and on the Printed jobs tab).
- **Delete from favorites:** Tap the star-minus icon to delete the selected jobs from your favorites (Visible on the Favorite jobs tab).
- **Delete:** Tap the bin icon to delete the selected jobs.

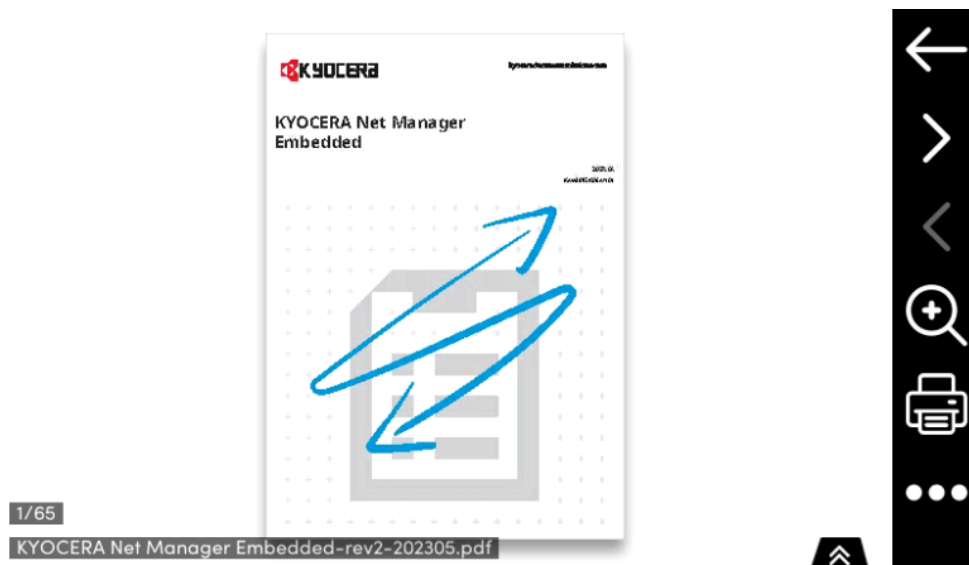
8.2.1 Job Preview

The **Job Preview** feature is used to generate previews of jobs. To enable it, go to **KYOCERA, Settings, Jobs, Job Preview**. It is possible to limit the **Number of pages** to be generated (1 by default) in the preview. To include all the pages, set the value to 0.

Once enabled, the Job Preview (eye) button is visible on the terminal.



Tapping on it redirects to the Job Preview screen. The first page of the document is displayed by default in a thumbnail view, as the first page of the job preview. Besides the document's preview, you can also see the document's name in the lower-left corner, the number of pages in the lower-right corner, and the navigation menu to the right side.



In the navigation menu, you can use the back button to return to My Jobs, the forward and backwards buttons to preview more pages, the magnifying glass button to zoom in and out of the previewed page, the printer button to print the job, and the three-dots button to expand the navigation menu. In the expanded menu, you can delete the job, add the job to your favorites, open the job's print options, and print the job.

Job Roaming

The Job Roaming feature enables users to transfer their jobs from one location to another: jobs sent to one Site can be printed on printing devices at any other Site.

The administrator can choose between a **Separate** and a **Shared** job list for the remote jobs, by going to **KYOCERA, Settings, Jobs** in the **Job Roaming** section. A **KNM** Central server with Site servers is required for this feature.

To print the jobs, the user has to take the following steps:

1. Log in to the embedded terminal.
2. Tap **My Jobs**. The My Jobs screen opens.
3. The remote jobs are automatically downloaded and are marked with the source server's IP address or hostname. Select them and tap **Print**.

If a **Shared** job list is used and the **Print remote jobs within Print All** is selected, the user can tap the **Print All** terminal action and all the jobs, remote and local, are printed.

8.3 Easy Scan

Scanning by a single touch. After the user taps this action, the page is immediately scanned to a predefined destination. You can define multiple destinations where the scanned document is sent to, and set scan parameters in **KNM**.

i For information on how to configure the **Easy Scan** action and define its destinations and parameters, check Easy Scan settings in the **KNM** Installation guide.

- If enabled on the server, users can change their scan settings from the terminal screen.



- You can also create new custom parameters to be used in the scan metadata, or as parts of file names, addresses, subjects and email bodies, and as paths to folders, passwords to folders etc. You can find further details in Create custom parameters on the **KNM** Installation guide.
- OCR (Optical Character Recognition) can be used with Easy Scan, by creating OCR profiles and enabling users to select them on the embedded terminal. You can find further details in OCR on the **KNM** Installation guide.



8.3.1 Easy Scan Parameters

Each parameter has a *Default* option. If selected, the actual values are taken from the default scan settings of the printing device. If you change the scan parameters, you can reuse them for another scan. The parameters are reset only when you return to the Top Menu.

- **Resolution** - The outgoing file's resolution. You can select from the following options:
 - 100 dpi
 - 200 dpi
 - 300 dpi
 - 400 dpi
 - 600 dpi
 - Default
- **Color** - The outgoing file's color scale. You can select from the following options:
 - Color
 - Grayscale
 - B&W (two tones)
 - Automatic
 - Default
- **Format** - The outgoing file's format. You can select from the following options:
 - PDF
 - JPEG
 - TIFF
 - XPS
 - HCPDF
 - Default
- **Duplex** - Simplex and Duplex scanning options. You can select from the following:
 - Single Sided
 - Duplex - binding on top
 - Duplex - binding on side
 - Booklet - binding on left
 - Booklet - binding on right
 - Default
- **Continuous scan** - With the continuous scan option *Enabled*, scan jobs are not sent until **Finish** is tapped. After clicking **Next**, the printing device scans another page. You can select from the following:
 - Disabled
 - Enabled
 - Default
- **Scan separation** - If a document with multiple pages is scanned, scanned pages can be stored either separately (each page in a separate file) or all together in one file. You can select from the following options:
 - All pages together
 - Separate each page
 - Default
- **Original Image** - Determines the way in which the printing device is going to process the scanned page. You can select from the following options:
 - Text + Photo
 - Photo
 - Text
 - Default
- **Original Orientation** - Determines the scanned page's orientation in the outgoing file. The paper's position is relative to the person standing at the printing device. You can select from the following options:

- Top Edge on Top: The page is displayed in a horizontal position (top edge of the page opposite to the person)
- Top Edge on Left: The page is displayed in a vertical position (top edge of the page on the left hand side of the person)
- Default
- **Density** - The picture's density in the outgoing file. The higher it is, the darker the resulting picture is. You can select from the following options:
 - Automatic
 - Lowest
 - Lower
 - Low
 - Normal
 - High
 - Higher
 - Highest
 - Default
- **Size** - The scanned output's size. This determines the size of the scanning area, therefore it should correspond to the actual size of the scanned paper. You can select from the following options:
 - Automatic
 - A3
 - A4
 - A5
 - A6
 - Folio
 - Ledger
 - Letter
 - Legal
 - Oficio II
 - Statement
 - Default
- **Skip blank pages** - With this parameter, you can select to skip blank pages in the scanned document. You can select from the following options:
 - Default
 - Yes
 - No



Limitations

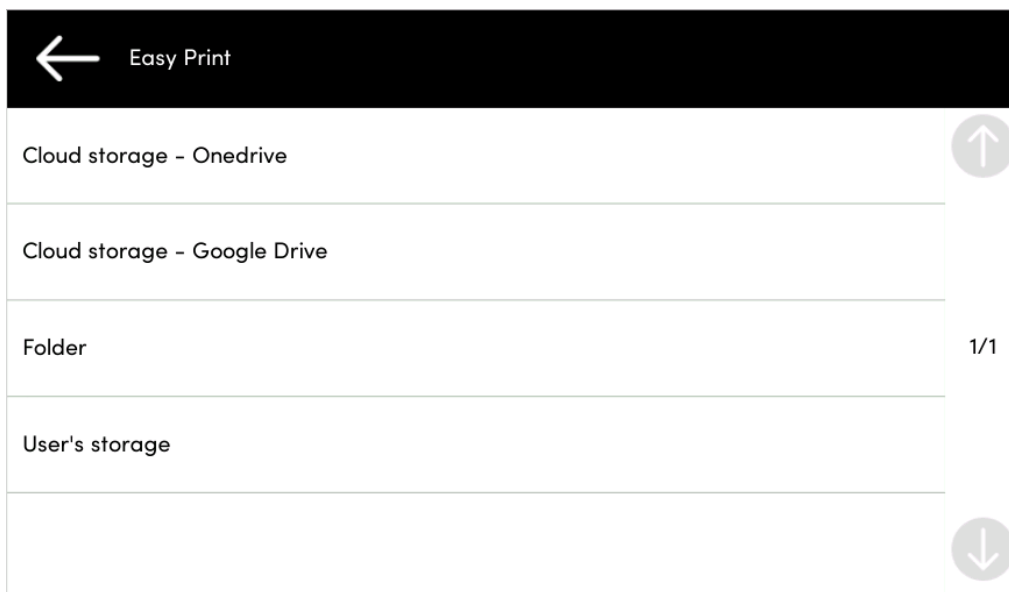
- When continuous scan is on, logging out will try to finish (to collect scanned pages and send them) the job immediately. However, sometimes, especially when using the HW Logout button or equivalent, the user is already logged out of the printer. In such a case, the scan job will be canceled (No job is sent).

8.4 Easy Print

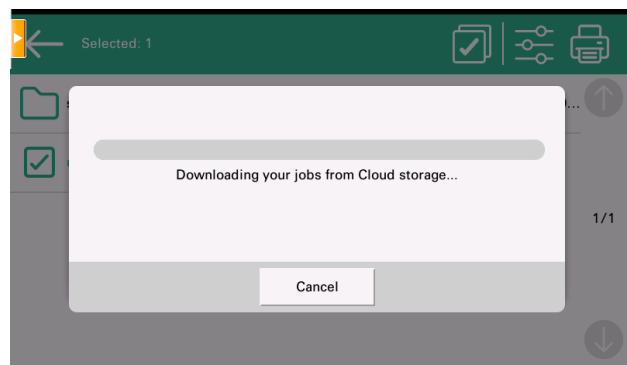
The Easy Print terminal action allows users to print files without sending them first to **KNM**. These files can be printed from multiple destinations, like several cloud storages, network drives or local drives, and the user's default storage.

i For information on how to configure the **Easy Print** action, check Easy Print settings in the **KNM** Installation guide.

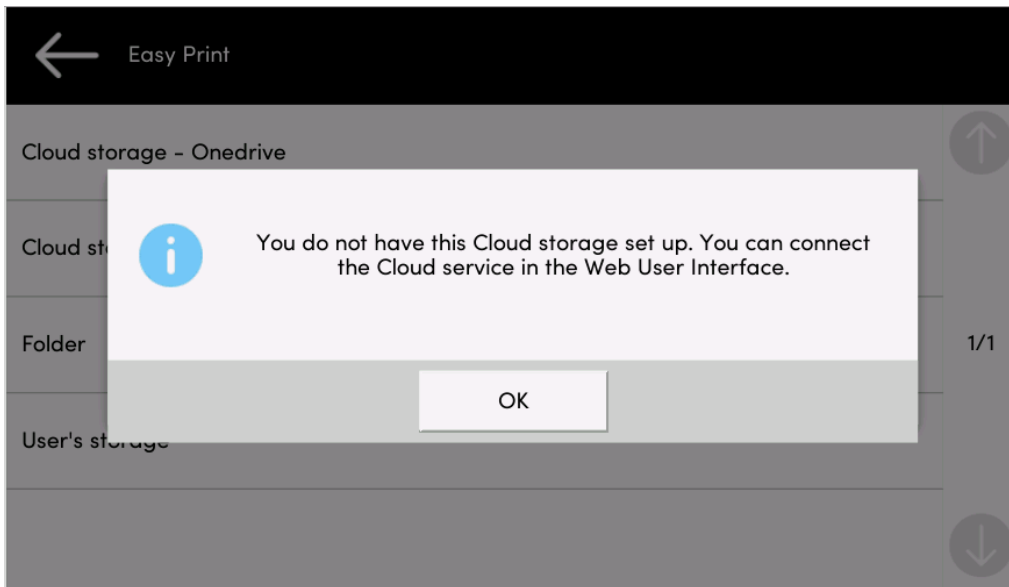
When Easy Print is used on the terminal, the user is presented with a list of possible destinations associated with this action (this is skipped in case of a single destination). After the destination is selected, the user can browse it and select files for printing.



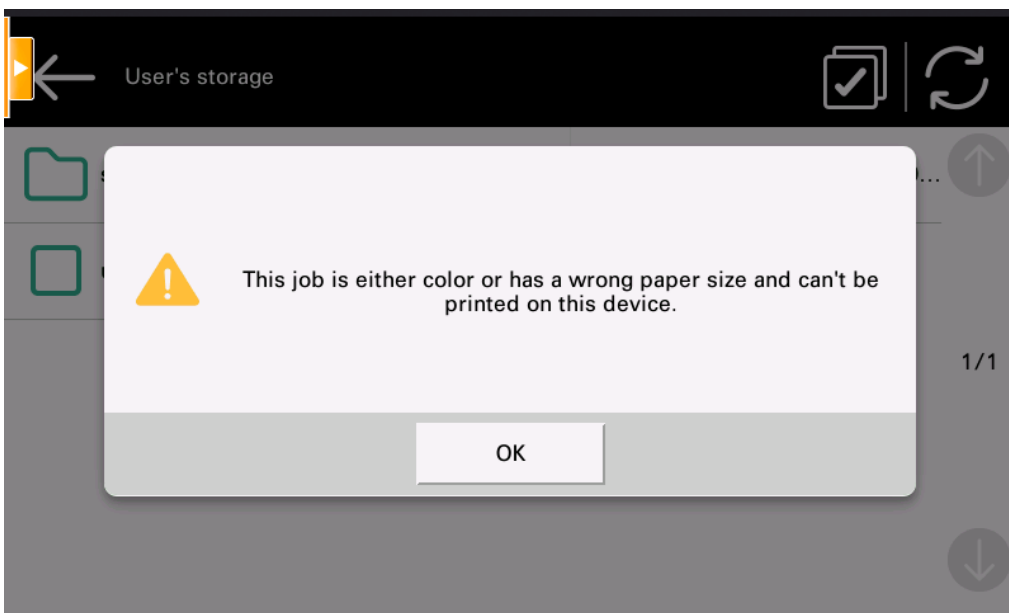
After pressing the print button, the files are downloaded from the destination to the server, processed through the default Easy Print queue, and released immediately to the printer without any further interaction. It is also possible to cancel the whole downloading and printing process. In this case, files that have already been downloaded, but not printed are deleted from the server. Files that have already been printed remain on the server and it is possible to reprint them.



If the user does not have any Cloud storages connected, an information message appears on the terminal informing the user that there is no Cloud storage available, but can be set up in the web UI.



If a job cannot be printed, an error message appears on the terminal.



8.5 Easy Copy


One tap copying. After the user taps the Easy Copy action, the page is immediately copied.

i You can define the copy parameters in the **KNM** web administrator interface, described in Easy Copy settings in the **KNM** Installation guide.

8.5.1 Easy Copy Parameters

- **Copies** - Predefine the number of copies to be available 1-99.
- **Color** - Color scale of the outgoing file. You can select from the following options:
 - Color
 - Monochrome
 - Automatic
 - Default
- **Duplex** - Simplex and Duplex scanning options. You can select from the following options:
 - Single Sided
 - Duplex
 - 1-sided to 2-sided
 - 2-sided to 1-sided
 - Default
- **Original Orientation** - Determines the page's orientation in the outgoing file. The paper's position is relative to the person standing at the printing device. You can select from the following options:
 - Top Edge on Top: The page is displayed in a horizontal position (top edge of the page opposite to the person)
 - Top Edge on Left: The page is displayed in a vertical position (top edge of the page on the left hand side of the person)
 - Default
- **Density** - Density of the picture in the outgoing file. The higher it is, the darker the resulting picture is. You can select from the following options:
 - Automatic
 - Lowest
 - Lower
 - Low
 - Normal
 - High
 - Higher
 - Highest
 - Default
- **Size** - Size of the scanned input. It determines the size of the scanning area; therefore, it should correspond to the actual size of the scanned paper. You can select from the following options:
 - Automatic
 - A3
 - A4
 - A5
 - A6
 - B4
 - B5
 - B6
 - Folio
 - Ledger
 - Letter
 - Legal
 - Statement
 - Oficio II
 - Default
- **Magnification** - With this parameter, you can determine the size of the copy. This way, you can make it smaller or larger than the original file. You can select from the following options:
 - Default

- Same as original
 - A3
 - A4
 - A5
 - A6
 - B4
 - B5
 - B6
 - Folio
 - Ledger
 - Letter
 - Legal
 - Statement
- **Skip blank pages** - With this parameter, you can select to skip blank pages in the copied document. You can select from the following options:
 - Default
 - Yes
 - No
 - **Mixed size** - This parameter enables automatic paper size recognition when different sizes of paper are used during copying.
 - Yes: The output paper size parameter will be ignored and be decided by the device itself depending on the scanned image size.
 - No: The output paper size must be set (everything but Auto) and the image will be zoomed and scanned to the same size.
 - Default

 The Mixed size parameter can be used only for papers of the same group with a side of the same length. KNM server 10.0 patch 7+ and devices with HyPAS 2.1.5+ are required.

8.5.2 Printing devices supporting Easy Copy

ECOSYS Series	Color/B&W	Device type
ECOSYS M2640idw	B&W	Multifunction printer
ECOSYS M3860idn	B&W	Multifunction printer
ECOSYS M3860idnf	B&W	Multifunction printer
ECOSYS M4125idn	B&W	Multifunction printer
ECOSYS M4132idn	B&W	Multifunction printer
ECOSYS M4226idn	B&W	Multifunction printer

ECOSYS Series	Color/B&W	Device type
ECOSYS M4230idn	B&W	Multifunction printer
ECOSYS M6230cidn	Color	Multifunction printer
ECOSYS M6235cidn	Color	Multifunction printer
ECOSYS M6630cidn	Color	Multifunction printer
ECOSYS M6635cidn	Color	Multifunction printer
ECOSYS M8124cidn	Color	Multifunction printer
ECOSYS M8130cidn	Color	Multifunction printer
ECOSYS M8224cidn	Color	Multifunction printer
ECOSYS M8228cidn	Color	Multifunction printer
ECOSYS MA4500ix	B&W	Multifunction printer
ECOSYS MA6000ifx	B&W	Multifunction printer
ECOSYS MA5500ifx	B&W	Multifunction printer
ECOSYS MA4500ifx	B&W	Multifunction printer
ECOSYS M3145idn	B&W	Multifunction printer
ECOSYS M3645idn	B&W	Multifunction printer
ECOSYS M3655idn	B&W	Multifunction printer
ECOSYS M3660idn	B&W	Multifunction printer
TASKalfa Series	Color/B&W	Device type
TASKalfa 3011i	B&W	Multifunction printer
TASKalfa 3212i	B&W	Multifunction printer

TASKalfa Series	Color/B&W	Device type
TASKalfa 3511i	B&W	Multifunction printer
TASKalfa 4002i	B&W	Multifunction printer
TASKalfa 4003i	B&W	Multifunction printer
TASKalfa 4012i	B&W	Multifunction printer
TASKalfa 4020i	B&W	Multifunction printer
TASKalfa 5002i	B&W	Multifunction printer
TASKalfa 5003i	B&W	Multifunction printer
TASKalfa 6002i	B&W	Multifunction printer
TASKalfa 6003i	B&W	Multifunction printer
TASKalfa 7002i	B&W	Multifunction printer
TASKalfa 7003i	B&W	Multifunction printer
TASKalfa 8002i	B&W	Multifunction printer
TASKalfa 8003i	B&W	Multifunction printer
TASKalfa 9002i	B&W	Multifunction printer
TASKalfa 9003i	B&W	Multifunction printer
TASKalfa 308ci	Color	Multifunction printer
TASKalfa 351ci	Color	Multifunction printer
TASKalfa 2552ci	Color	Multifunction printer
TASKalfa 2553ci	Color	Multifunction printer
TASKalfa 3252ci	Color	Multifunction printer

TASKalfa Series	Color/B&W	Device type
TASKalfa 3253ci	Color	Multifunction printer
TASKalfa 3552ci	Color	Multifunction printer
TASKalfa 3553ci	Color	Multifunction printer
TASKalfa 4052ci	Color	Multifunction printer
TASKalfa 4053ci	Color	Multifunction printer
TASKalfa 5052ci	Color	Multifunction printer
TASKalfa 5053ci	Color	Multifunction printer
TASKalfa 6052ci	Color	Multifunction printer
TASKalfa 6053ci	Color	Multifunction printer
TASKalfa 7052ci	Color	Multifunction printer
TASKalfa 8052ci	Color	Multifunction printer
TASKalfa MZ4000i	B&W	Multifunction printer
TASKalfa MZ3200i	B&W	Multifunction printer
TASKalfa 3060ci	Color	Multifunction printer
TASKalfa 352ci	Color	Multifunction printer
TASKalfa 7004i	B&W	Multifunction printer
TASKalfa 6004i	B&W	Multifunction printer
TASKalfa 5004i	B&W	Multifunction printer
TASKalfa 4004i	B&W	Multifunction printer
TASKalfa 7054ci	Color	Multifunction printer

TASKalfa Series	Color/B&W	Device type
TASKalfa 6054ci	Color	Multifunction printer
TASKalfa 5054ci	Color	Multifunction printer
TASKalfa 4054ci	Color	Multifunction printer
TASKalfa 3554ci	Color	Multifunction printer
TASKalfa 2554ci	Color	Multifunction printer
TASKalfa 8353ci	Color	Multifunction printer
TASKalfa 7353ci	Color	Multifunction printer
TASKalfa 358ci	Color	Multifunction printer
TASKalfa 408ci	Color	Multifunction printer
TASKalfa 508ci	Color	Multifunction printer

8.6 Panel Actions

8.6.1 Unlock Panel

Unlocks the printing device's panel and opens the native device screen.

8.6.2 Panel Copy

Opens the printing device's copy screen.

8.6.3 Panel Scan

This terminal action opens the printing device's scan screen.

KNM is able to automatically send scanned documents to a specified folder or email belonging to the scanning user, with the **Scan to Me** feature. To set up **Scan to Me**, go to the **Scanning & OCR** settings tab, under **General** and **Enable scanning**.

You can also change the subject and message of the email with the scanned document there. As the sender of the document, you can select either the email of the logged user or the default sender email set on the **Network** settings tab, under **Outgoing SMTP server**.

The scanning function requires enabling the SMTP protocol, setting the SMTP server address and entering a sender email on the printing device web interface. For information about how to enter the printing device web interface and find the particular settings, see the printing device manual.

Set SMTP on the printing device

To enable the scanning function, take the following steps on the printing device web interface:

- Enable SMTP protocol.
- Enter the **KNM** server IP address or hostname.
- Ensure that the SMTP port is the same as the SMTP port in the **Network** settings tab, under **KYOCERA Net Manager** SMTP server. The default port in **KNM** is 25.
- Enter sender email address. The address value is arbitrary.

Set the destinations for the KNM users on the KNM server

On the properties panel of each individual **KNM** user, you can set the destinations using three options: **Sending scans to the user's primary email**, **Sending scans to other predefined emails**, **Storing scans to the user's scan folder**.

To provide a user with these options, set the appropriate fields on their properties panel.

To send the email to the desired destination, the scan needs to be directed to a specific receiver email address. There are two options to enable the **KNM** users to send the scans there: provide them with the respective receiver email address, or predefine these email addresses on the printing device's Web User Interface.

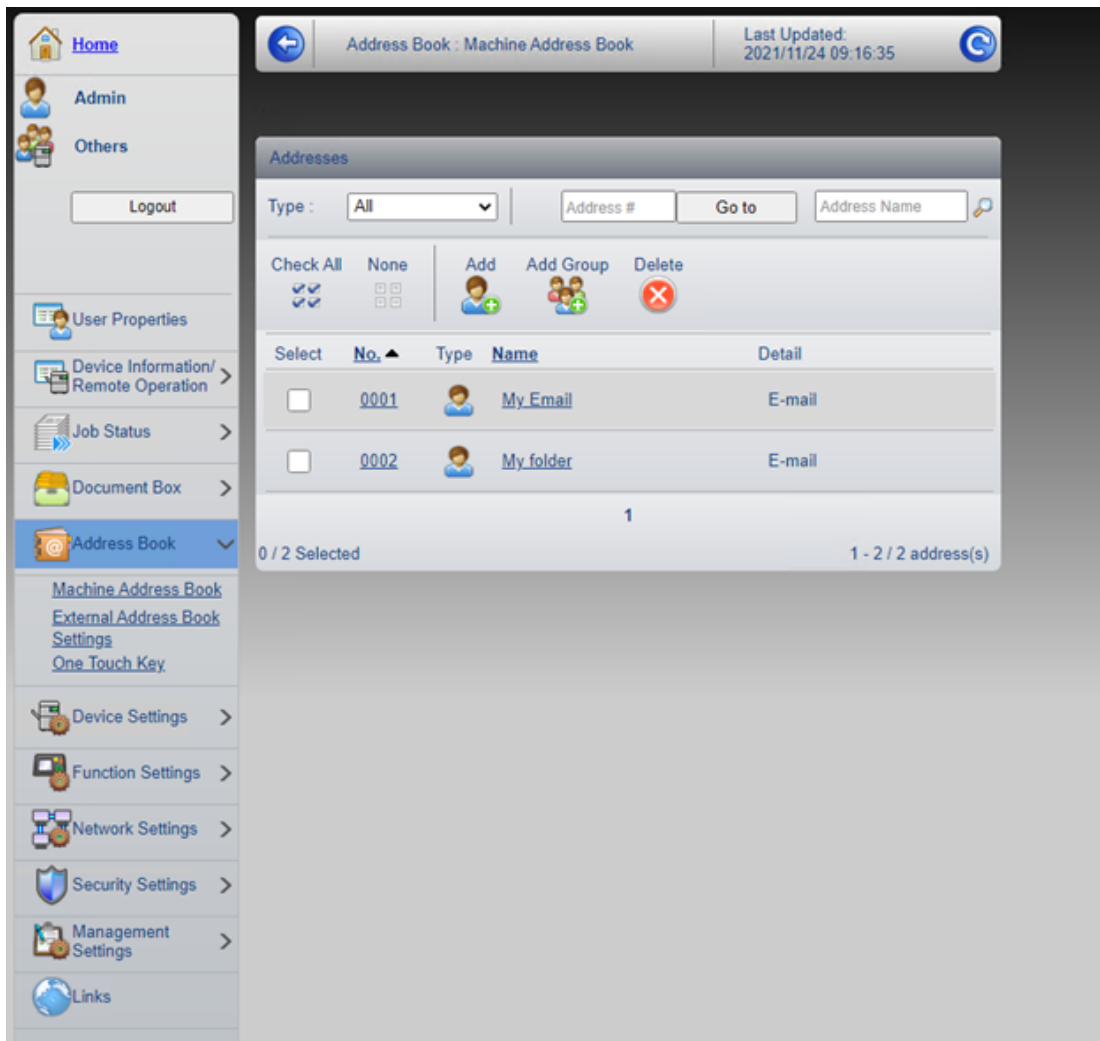
Email addresses for Scan to Me

- **Sending scans to the user's primary email** - The scanned document is sent to the user email set in the email text box on the user properties panel.
The receiver email address has to be *email@KNM.local*.
- **Sending scans to other emails** - The scanned document is sent to all emails set in the **User's scan storage** text box (multiple emails should be separated by commas) on the user properties panel.
The receiver email address has to be *folder@KNM.local*.
- **Storing scans to the user's scan folder** - You have to create a shared folder and ensure that **KNM** has access to this folder. After this, enter the folder's location to the **User's scan storage** text box. The scanned document is sent to **KNM**, and then stored in the shared folder via the SMB protocol. The stored document file name consists of the user account name, and the date and the time when the scan was sent.
The receiver email address has to be *folder@KNM.local*.

To enable **KNM** to save the scan file in the user scan folder, you have to make sure that the folder is shared over your network and that the computer where you run **KNM** has all the necessary access rights to this folder.

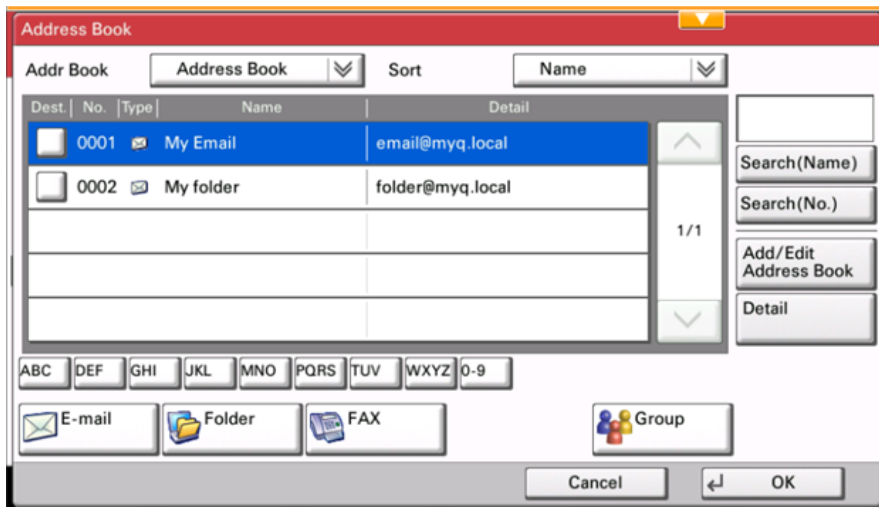
Predefined list of the KNM destinations on the printing device

The default addresses for the e-mail destination (*email@KNM.local*) and the folder destination (*folder@KNM.local*) must be registered via the device's web UI, in the **Address Book** tab.



Once added, you can see the following destinations on the terminal:

- **My Email** is a shortcut for scanning to *email@KNM.local*.
- **My folder** is a shortcut for scanning to *folder@KNM.local*.



8.6.4 Panel USB

Opens the printing device's USB screen.

8.7 USB Actions

8.7.1 USB Print

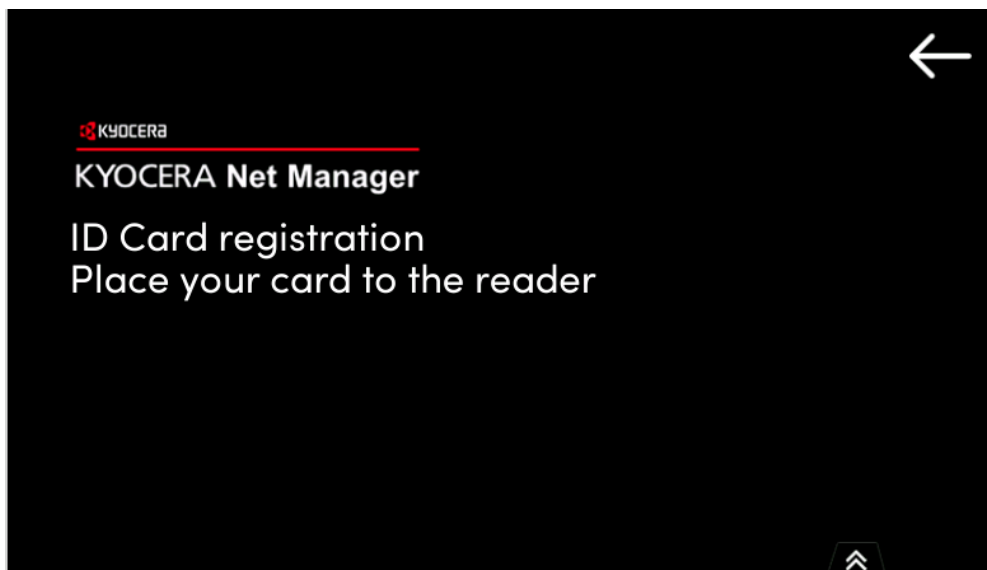
Opens the printing device's USB screen, where you can print files from a USB drive.

8.7.2 USB Scan

Opens the printing device's USB screen, where you can scan to a USB drive.

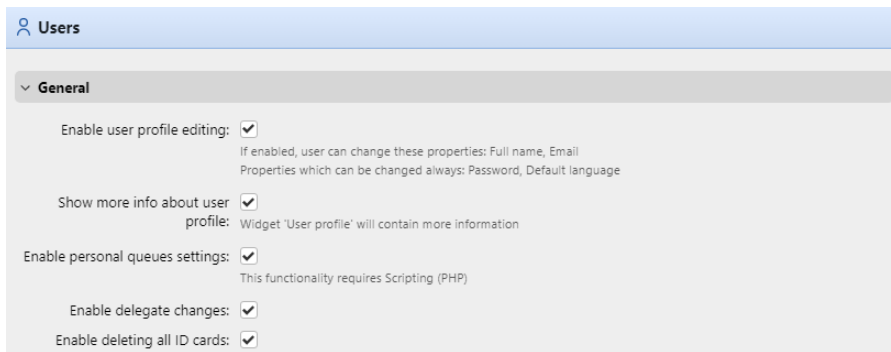
8.8 ID Card Registration

After tapping this action, the ID Card registration screen opens and the logged user can register their card by swiping it at the card reader.

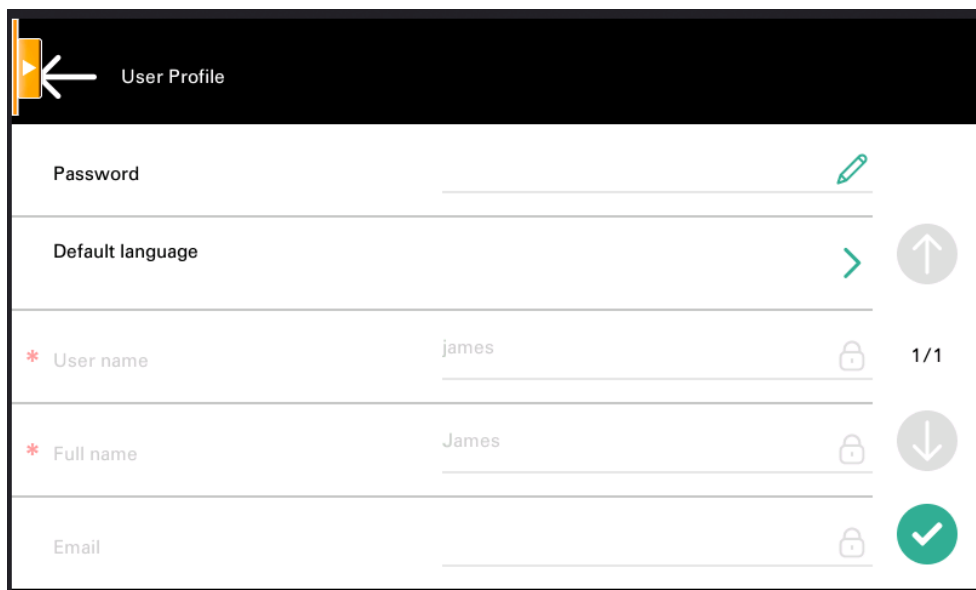


8.9 Edit Account

To be able to use all the features of this terminal action, go to the **Users** settings tab (**KYOCERA, Settings, Users**) and under **General**, select the **Enable user profile editing** option.



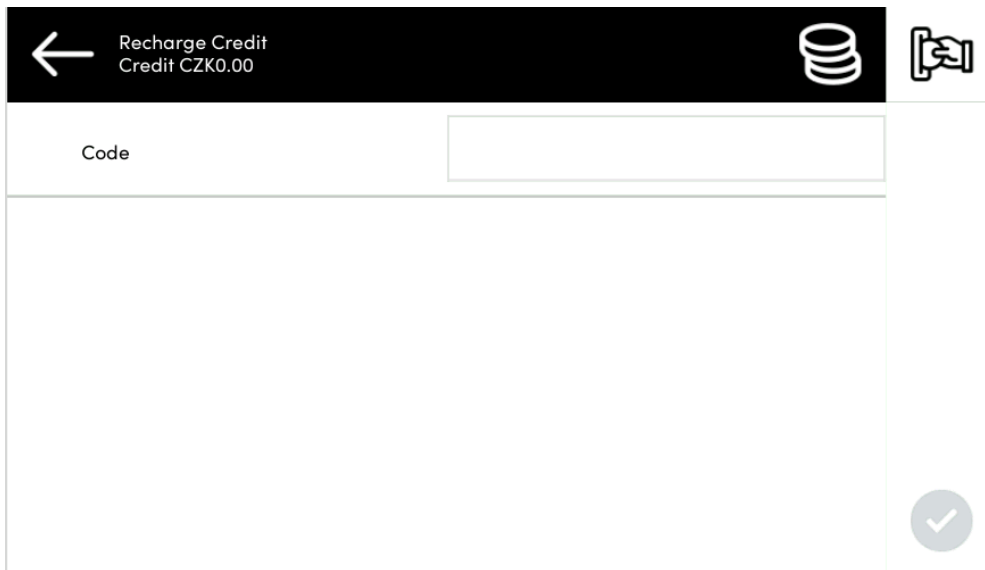
By tapping the **Edit account** action, the logged user can open their user profile screen, where they can change their **Full name, Password, Email** and **Default language**. After the change is submitted, the database entry is changed and the new values are set. The changes are applied the next time the user logs in.



8.10 Recharge Credit

This action enables recharging credit on the terminal.

After tapping the **Recharge Credit** action, the Recharge Credit screen opens and the logged user can enter a recharge code from their voucher.



Users can view the prices of different configurations of a printed page by tapping the **Coins** in the upper-right corner of the screen.

8.11 Folder

Terminal actions can be put into folders. Folders can be used to optimize the layout of the terminal screen or to enable users to access a larger number of actions. For example, you can place multiple Easy Scan actions with different destinations under one Easy Scan folder. Another example is to leave the most important terminal actions on the home screen and place the rest into an *additional actions* folder.

Empty folders are not displayed on the terminal screen. If there is only one item in the folder, the item is displayed instead of the folder.

8.12 Custom Box

By tapping this action, users can access the Custom Box of the printing device.

The Custom Box feature has to be available on the printing device.

8.13 ID Card Copy

By tapping this action, users can create a copy, where both sides of an ID card are printed on a single page.

They can set the following parameters:

- **Copies** - Number of printed copies.
- **Color** - Select from color, monochrome or gray scale.


8.14 External workflow

By tapping this terminal action, users are connected to external providers of workflows, such as ScannerVision. The workflow ensures that the user performs certain predefined actions before their document is scanned.

An external workflow enables a connection to external providers such as ScannerVision. The workflow is based on existing scan profile workflows, while the processing is moved to an external server rather than **KNM**.

The external workflow can provide the embedded terminal with scan settings and metadata that need to be filled in before scan execution.




 For more information, check Smart Workflows on the **KNM** Installation guide.

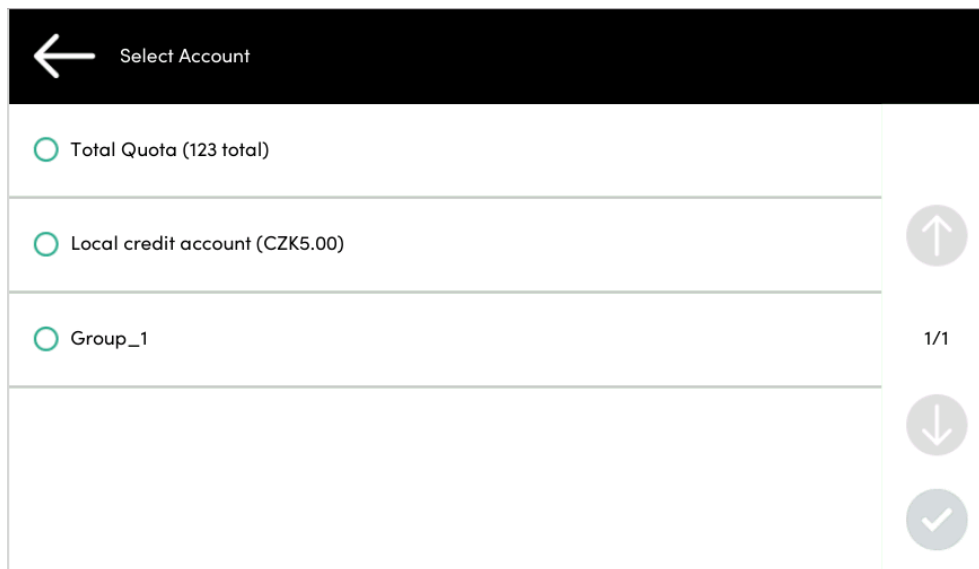
9 Accounting

For the users accounting settings, in the **Accounting** settings tab, in the **General** section, the **KNM** administrator can set:

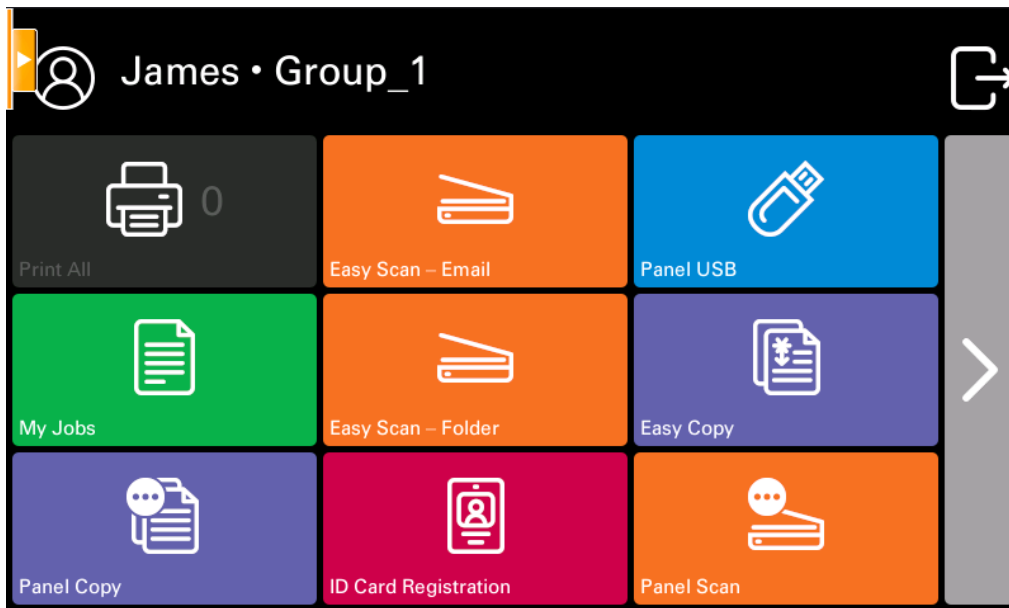
- the **Accounting mode KNM** will be using:
 - **Accounting Group** - This is selected by default. In this mode, all quotas are available and can be spent.
 - **Cost Center** - In this mode, only the selected (cost center) payment account is spent.
- the **Payment account priority**, which applies to terminals that don't support user selection of payment accounts, and to direct queues without the **KNM** Desktop Client option. The payment account with the highest priority is always used in such cases:
 - Credit
 - Quota

 For further details, check Accounting Settings in the **KNM** Installation guide.

If the **Cost Center** mode is enabled, a cost center selection screen is displayed if more than one cost centers are assigned to the user.

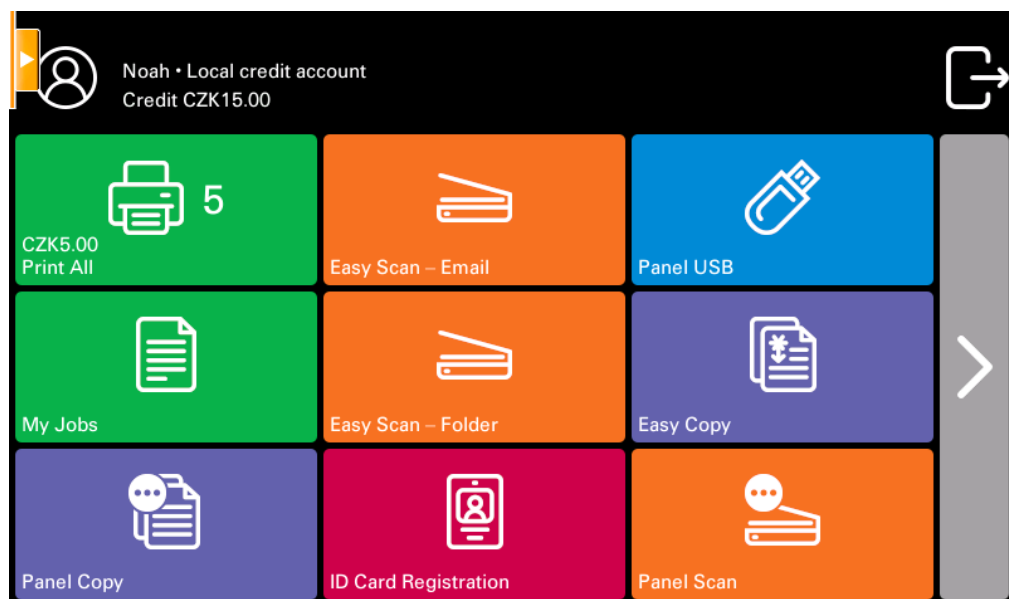


If the user only has one cost center, the selection screen is not displayed, and this cost center is automatically assigned to the user. The name of the assigned cost center is displayed next to the user's full name.



9.1 Credit

With credit accounting activated, users must have a sufficient amount of credit on their account to be allowed to print, copy and scan. On their home screen on the embedded terminal, they can view their remaining credit. If the **Recharge Credit** action is available on the terminal, users can recharge their credit by entering a code from a recharging voucher directly on any embedded terminal.



- If recharging credit by vouchers is enabled in **KNM**, users without credit are asked to recharge after they log in. They are informed about the insufficient credit and automatically redirected to the **Recharge Credit** screen, where they can top up.

 For more information, check Credit in the **KNM** Installation guide.

9.1.1 Recharging Credit

After tapping the **Recharge Credit** action, the Recharge Credit screen opens and the logged user can enter a recharge code from their voucher.



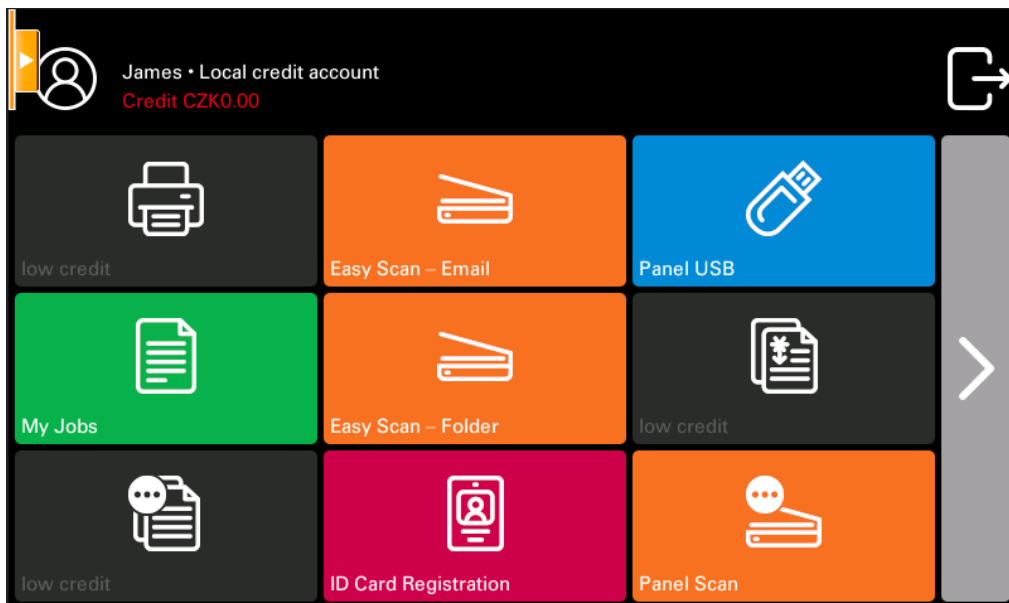
Users can view the prices of different configurations of a printed page by tapping the **Coins** in the upper-right corner of the screen.



9.1.2 Using terminal actions with insufficient credit

If recharging credit by vouchers is enabled in **KNM**, users can still see the actions that they do not have sufficient credit for. However, if they tap the particular action button, they are immediately redirected to the **Recharge Credit** screen.

If recharging credit by vouchers is disabled in **KNM** and a user does not have sufficient credit, all actions requiring credit are unavailable, and their corresponding buttons are dimmed.



Action taken when a user runs out of credit during copying, scanning or faxing

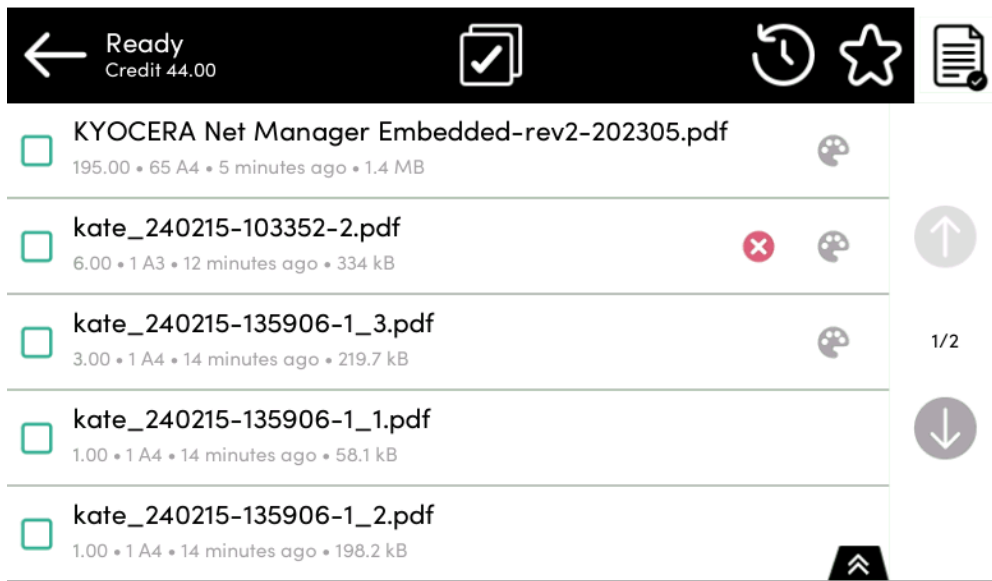
If recharging credit by vouchers is enabled in **KNM**, the copy action stops, although a few more pages can be copied, depending on the printing device's speed. The user is automatically redirected to the **Recharge Credit** screen, where they can recharge their credit.

If recharging credit by vouchers is disabled in **KNM**, the copy action stops. After this, the user cannot copy anymore.

The first scan or fax job is always finished. After this, the user cannot fax or scan anymore.

Print jobs with additional information from the job parser

Print jobs received with the job parser activated, include additional information such as number of pages, color and price.

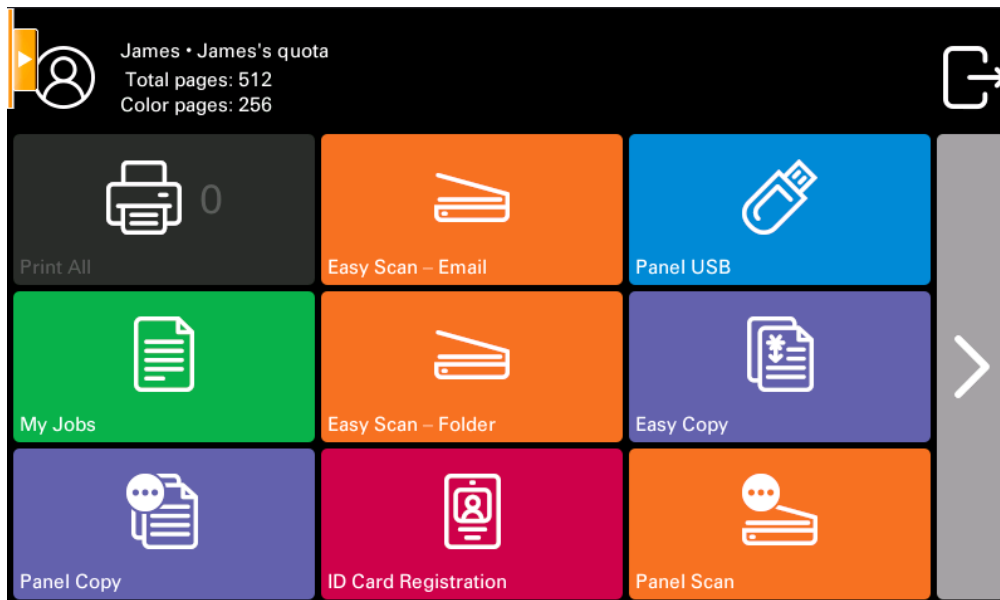


Priced jobs cannot be printed unless the users have a sufficient amount of credit. The users cannot use the Print all action when the overall price of all the priced print jobs is higher than their credit.

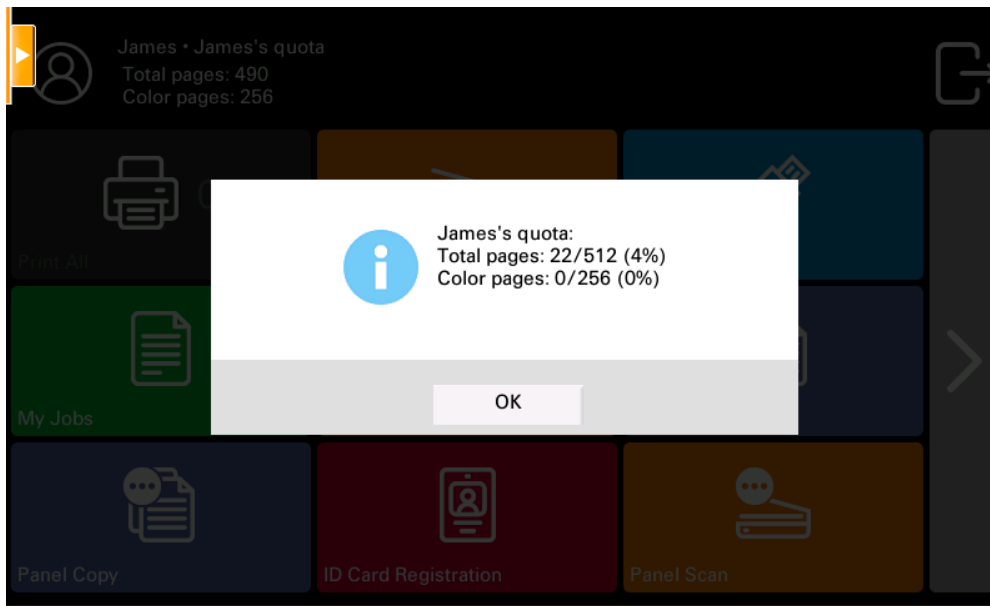
If a job does not include additional information from the job parser, users can start it as long as their credit is not equal to or below 0.

9.2 Quota

With the **Quota** feature activated, users cannot print, copy or scan after they reach or exceed their quota limit. They can view their current quotas on their session on the embedded terminal.




Users can click on the quotas displayed on the terminal, and a pop-up window opens with detailed information about all the quotas assigned to them.



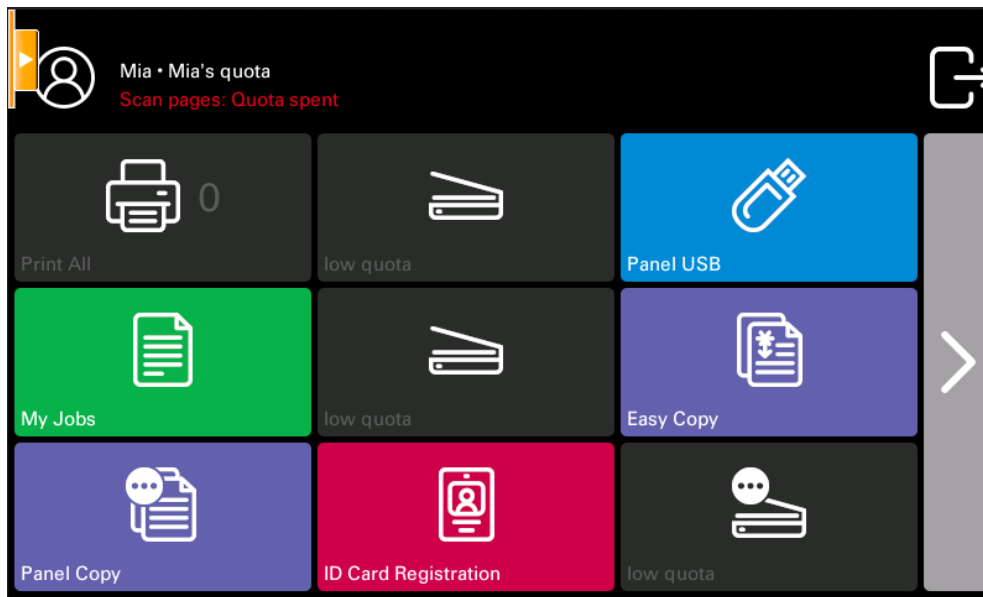
The embedded terminal's behavior depends on the quota settings in **KNM**. When setting up **Quota** in the **KNM** Web administrator interface, you can disable one or more operations after the quota is reached or exceeded:

- If the **Monitored value** is *Cost*, select them under **Disable operations**. The options are *Print*, *Copy*, *Color print* (on terminals 8.1 or newer), *Color copy* (on terminals 8.1 or newer), and *Scan*.
- If the **Monitored value** is *Pages*, mark the **Disable operation** checkbox and the operation that has reached the limit will be disabled.
- Mark the **Terminate the current job when reached** checkbox if you want to interrupt the current job when the quota is reached. If both **Disable operation** and **Terminate the current job when reached** are checked, the job will be interrupted when the quota is reached and the user will be redirected to the **KNM** home screen. If **Disable operation** is checked and **Terminate the current job when reached** is not, the current job will be finished and the user will be redirected to the **KNM** home screen. The action is not supported by scan quota.
- Quotas that disable scanning cannot be applied immediately.

 For more information, check Quota in the **KNM** Installation guide.

Action taken when a user reaches a quota with immediate application

The current operation stops, although a few more pages can be printed or copied, depending on the printing device's speed. This applies to print and copy jobs only (including panel copy). Scan jobs are always finished.



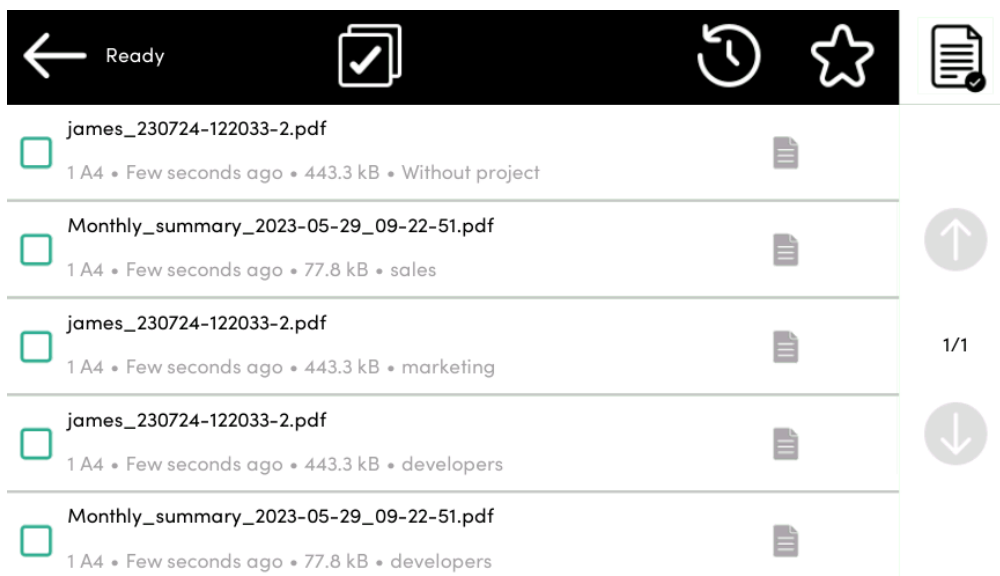
Print jobs with additional information from the job parser

Print jobs received with the job parser activated, include additional information such as number of pages, color and price.

Jobs exceeding the quota cannot be printed. Users cannot use the **Print all** action as long as the overall size of all of the print jobs is larger than what is allowed by the quota.

9.3 Projects

With the project accounting feature activated, users can assign projects to print, copy and scan jobs directly on the embedded terminal screen. Projects can also be assigned to print jobs in the **KNM Desktop Client** pop-up window or on the **KNM Web administrator** interface.

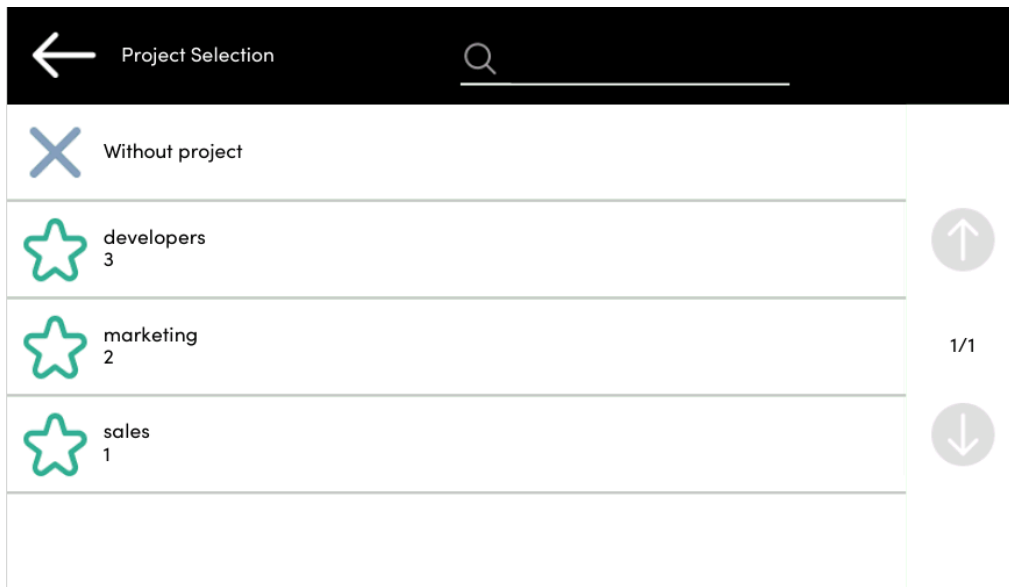


For more information, check Projects in the **KNM** Installation guide.

9.3.1 Assigning projects to print jobs

My Jobs

If a user wants to print an unassigned job from the **My Jobs** list, they are immediately redirected to the Project selection screen and have to select one of the available projects (or the *Without project* option, if printing without project is allowed) to be allowed to print it.



Jobs with projects assigned to them are immediately printed.

Print All

If all the jobs waiting in queue have projects already assigned by **KNM** Desktop Client or the **KNM** Web administrator interface, printing starts immediately.

If there are any unassigned jobs, the user is redirected to the Project selection screen, immediately after tapping the **Print All** button. They have to select one of the available projects (or the *Without project* option, if printing without project is allowed) to be allowed to print the jobs. The selected project (or the *Without project* option) is assigned only to unassigned jobs; all other jobs keep their previously assigned projects.

9.3.2 Assigning projects on the Easy Copy screen

After tapping the **Easy Copy** button, the user is immediately redirected to the Project selection screen where they need to select the project (or the *Without project* option).

9.3.3 Assigning projects on the Easy Scan screen

After tapping the **Easy Scan** button, the user is immediately redirected to the Project selection screen where they need to select the project (or the *Without project* option) before the scan job is started.

9.3.4 Assigning projects on the Panel Copy screen

After tapping the **Copy** button on the **Panel Copy** screen, the user is immediately redirected to the Project selection screen, where they need to select a project (or the *Without project* option). The project is then assigned to all jobs copied on the panel.

9.3.5 Assigning projects on the Panel Scan screen

After tapping the **Scan** button on the **Panel Scan** screen, the user is immediately redirected to the Project selection screen, where they need to select a project (or the *Without project* option). The project is then assigned to all jobs scanned on the panel.

9.3.6 Assigning projects on the Panel Fax screen

After tapping the **Fax** button on the **Panel Fax** screen, the user is immediately redirected to the Project selection screen where they need to select the project (or the *Without project* option).

10 Device Spooling

Under normal circumstances, print jobs are sent to the **KNM** server where they are stored and wait for release. With Device Spooling enabled, a print job is sent directly to the device and saved to its hard disk. It waits there to be released in the standard way.

10.1 Policies

Printer policies

- For locally spooled jobs in online/offline server mode the printer policies are applied by the same way like for Print&Follow or direct jobs spooled on the server.

Job policies

- For locally spooled jobs in online/offline server mode the job policy color only is applied. All other job policies are ignored.

i If a user logs into the embedded terminal after the policies are set, the policies are updated. If a user prints directly over Device Spooling and they don't physically log in after the policies are set, the policies are only updated after 5 minutes.

- ≡**
- Locally spooled color jobs are not displayed when color print is restricted.
 - When the printing device is in deep sleep mode, Device Spooling is not available and an error is shown on Windows spooler.
 - Even though it is possible for a user to use both print to server and Device Spooling, this option is not recommended. The following problems may appear: jobs are not sorted and printed in the correct order, the terminal display might not be correctly refreshed.

10.2 Setting up Device Spooling in KNM

i For details on enabling and configuring the feature, check Device Spooling in the **KNM** Installation guide.

10.3 Printing devices supporting Device Spooling

Model Name	Limitations	Device Clients
TASKalfa PA4500ci	SSD (HD6 or HD7) is required	Up to 5 for concurrent access
TASKalfa 352ci	Custom firmware is required (for more info, contact your supplier)	

Model Name	Limitations	Device Clients
ECOSYS M3860idn		
ECOSYS M3145idn		
ECOSYS M3645idn		
ECOSYS M3655idn		
ECOSYS M3660idn		
ECOSYS M6230cidn		
ECOSYS M6630cidn		
ECOSYS M6235cidn		
ECOSYS M6635cidn		
TASKalfa 351ci		
ECOSYS M3860idnf	HDD is required Custom firmware might be necessary (for more info, contact your supplier)	Up to 10 for concurrent access
TASKalfa 358ci		
TASKalfa 3011i		
TASKalfa 3212i		
TASKalfa 3511i		
TASKalfa 4012i		
TASKalfa 7002i		
TASKalfa 8002i		
TASKalfa 9002i		
TASKalfa 2552ci		

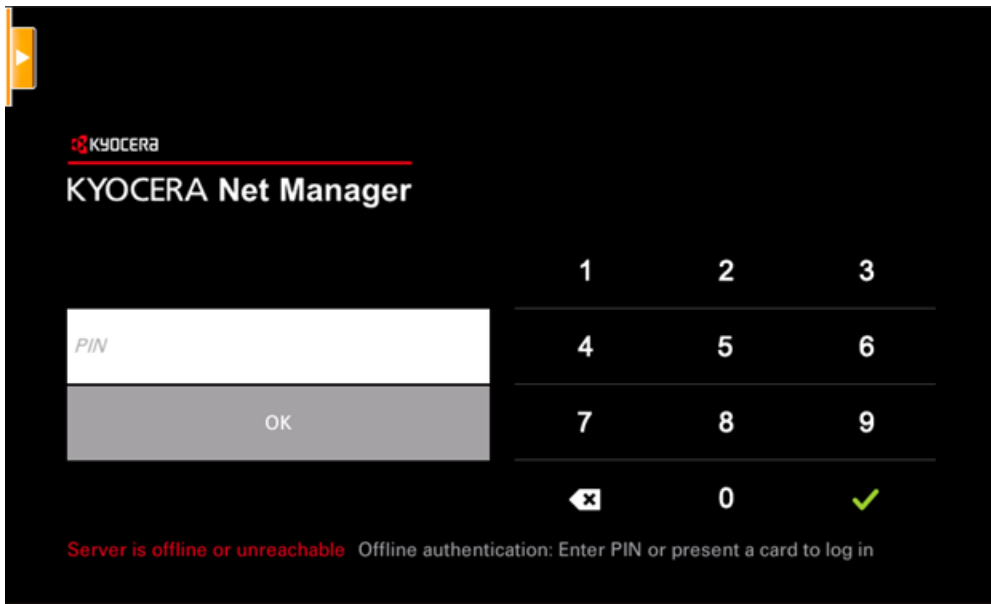
Model Name	Limitations	Device Clients	
TASKalfa 2553ci			
TASKalfa 3252ci			
TASKalfa 3253ci			
TASKalfa 7052ci			
TASKalfa 8052ci			
ECOSYS MA3500cix			
ECOSYS MA3500cifx			
ECOSYS MA4000cix			
ECOSYS MA4000cifx			
TASKalfa MA3500ci			
TASKalfa MA4500ci			
ECOSYS P8060cdn			Custom firmware might be necessary (for more info, contact your supplier)
TASKalfa 408ci			
TASKalfa 508ci			
TASKalfa 4002i			
TASKalfa 4003i			
TASKalfa 5002i			
TASKalfa 5003i			
TASKalfa 6002i			
TASKalfa 6003i			

Model Name	Limitations	Device Clients
TASKalfa 7003i		
TASKalfa 8003i		
TASKalfa 9003i		
TASKalfa 3552ci		
TASKalfa 3553ci		
TASKalfa 4052ci		
TASKalfa 4053ci		
TASKalfa 5052ci		
TASKalfa 5053ci		
TASKalfa 6052ci		
TASKalfa 6053ci		
TASKalfa MZ4000i		
TASKalfa MZ3200i		
TASKalfa 7004i		
TASKalfa 6004i		
TASKalfa 5004i		
TASKalfa 4004i		
TASKalfa 7054ci		
TASKalfa 6054ci		
TASKalfa 5054ci		

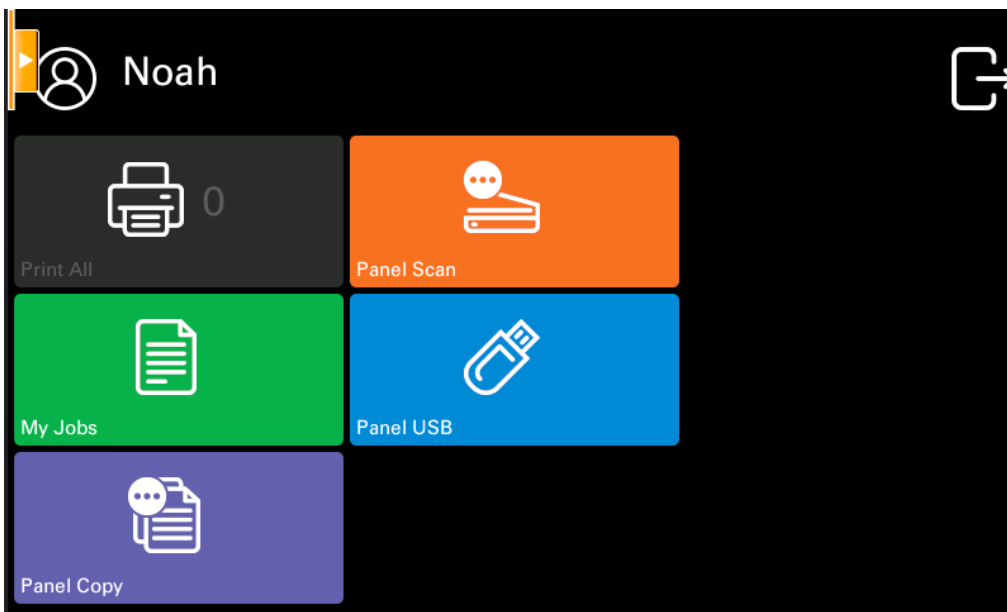
Model Name	Limitations	Device Clients
TASKalfa 4054ci		
TASKalfa 2554ci		
ECOSYS P4060dn		
TASKalfa 8353ci		
TASKalfa 7353ci		

11 Offline Login

For **KNM** to operate properly, a 100% reliable network connection is necessary. Connection problems can lead to serious issues; for example, users may not be able to start their user sessions on the printing devices and perform any copy, print or scan actions. The **Offline Login** feature prevents such situations. User information, including credentials, are cached at the device and if the server is unavailable, cached data are used for user authentication. Users can then log in and perform all the actions that do not require network access to the **KNM** server.





When combined with Device Spooling, the offline login feature offers a robust backup plan for server outages.



Requirements

- UDP broadcasts have to be enabled on the network.
- For an optimal run of the Offline Login feature, SSL needs to be enabled on the server. SSL is set by default during the installation, however if you have changed it for any reason, you can set it again in **KNM** Easy Config, in the **Settings** tab.

 For details on enabling and configuring the feature, check Offline Login in the **KNM** Installation guide.

 The **Send Result Report** option on the Notifications/Reports tab on the printing device Web UI should be turned off. Otherwise, when a connection fails during an online session, a report about this event is printed on the printing device and accounted to the logged user. If the Offline login feature is off, the printed report is accounted to the ***unauthenticated** user account.

11.1 Scan to Email in Offline Login mode

You can enable users to scan to email even when the **KNM** server is offline. In such cases, users can log in to the terminal in the Offline mode and use the **Panel Scan** action to scan to emails. The terminal remembers the outgoing SMTP server and sends all emails directly to this server. Scanning to email in the Offline mode is supported by all the models that support embedded terminals.

To enable the feature:

Go to the printing device's Web UI and set your (customer) SMTP server's IP address in the **SMTP Server Name** field.

Function Settings : E-mail Last Updated: 2020/09/14 10:46:30

E-mail Settings

SMTP

SMTP Protocol : On
Note : Settings must be made in SMTP (E-mail TX). [Protocol](#)

SMTP Server Name :
Note : To specify the server name by domain name, set DNS server. [TCP/IP](#)

SMTP Port Number : (1 - 65535)

SMTP Server Timeout : seconds

Authentication Protocol :

Authentication as :

Login User Name :

Login Password :

SMTP Security : Off
Note : Make settings here. [Protocol](#)

Connection Test :

Domain Restriction :

⚠ The *email@KNM.local* and *root@KNM.local* variables cannot be used in the Offline mode for scanning from the panel with these settings, because scanning is not done via the **KNM** server.

For the KYOCERA contact in your region, see Sales Sites sections here:

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