

Security Best Practices for Kyocera MFPs and Printers

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Introduction

Overview

With the rapid development of digital information networks in society, the various IoT devices connected to these networks improve convenience. The IoT devices for office use handle various types of sensitive information. Whereas, the IoT devices are exposed to recent advanced and diversified threats, such as unauthorized access to the IoT devices via a network, and tapping or alteration of the information in transit over a network. Multifunction products (MFPs) and printers (referred to as “products” hereafter) are no exception. Like a PC, when using the product and connecting it to a network, the customer’s attention is necessary.

Kyocera Document Solutions (referred to as “Kyocera,” hereafter) is committed to helping meet the security challenges organizations face in their environments, including federal, state, and local governments; the Department of Defense; enterprises; and healthcare, education, and financial sectors. We enhance customers’ information security and privacy through products and services that are secure, reliable, and compliant with international legal requirements and security standards^{*1}.

Kyocera helps ensure our customers’ security policies are configured to their sector best practices. By referring to this document, customers can consider the security posture of their organization.

**1: GDPR, California IoT Security Law, ISO/IEC27001, ISO/IEC27017^{*2}(Cloud Security), ISO/IEC15408 (Common Criteria), HCD-PP, IEEE 2600, DoD 5220.22-M ECE, VSITR, FIPS 140-2/FIPS 140-3, HIPAA, GLBA, PSTI and others.*

**2: Kyocera obtained ISMS Cloud Security certification (the new-cloud-centric security certification) ahead of all other MFP and printer manufacturers as of November 17, 2017.*

Purpose

The purpose of this document is to advise customers (i.e., administrators) of security measures pertaining to appropriate security settings and to help you enhance Kyocera product security in your workplace. Kyocera provides customers with a variety of security features for its product. We recommend the configurations written in this document be used as much as possible while applying the security settings to your specific environment and the product life cycle from the time of the product installation and operation through decommission phase. In order to ensure the best performance and most effective use of the product, please read this document thoroughly before setting the security features provided by the product. Refer to the *Operation Guides* for more information on other configurations.

Target Audience

The target audience for this document is intended for:

- administrators,
- other customers.

The target audience should understand the following:

Under the current cybersecurity environment, it is important that customers (i.e., organizations) should manage their endpoints (i.e., products) and resources to protect network and information assets. It is also essential that customers (e.g., administrators) should educate their organization's employees on how to use network-connected products properly. For example, user authorization management^{*3} should be well determined and set by the organization to prevent privileged escalation. Therefore, customers may rest assured to use Kyocera product in the secure environment with the correct settings.

*3: See "User Authorization Management" described in [Security White Paper for Kyocera MFPs and Printers](#).

NOTE

Only administrators should have access to the high security level of features such as network configuration, system configuration, printing protocols and ports. The administrators should determine who can access the address book, who can add, edit or remove entries from the address book. Administrators can define, enforce, and prohibit various security settings. In other words, the administrators should take full responsibility for controlling and managing the product and for making sure that no improper operations are performed.

Edition Notice

The information contained in this document is subject to change without notice. It could include inaccuracies or typographical errors. Changes or improvements in this document may be incorporated in later editions. Changes or improvements in the product or software are made at any time as needed.

Not all security features and software are supported on all Kyocera products in every market. Some security features and software apply to certain product models only. Customers can obtain more information about the product from the *User Guides*, *Operation Guides*, or by contacting your nearest sales companies in your respective regions.

Limitations

The document is intended to help you configure the minimum-security settings for your user's environment. Please note that you are responsible for independently evaluating the information described in the document, as well as the usage of Kyocera products or services, especially those connected to your network environment. The information in the document is subject to change without notice.

The information in the document is provided "as-is" without warranty of any kind, whether express or implied. Although care has been taken when compiling this information, Kyocera makes no representations or warranties about the accuracy, completeness or adequacy of the information provided herein, nor fitness for a particular purpose, and shall not be liable for any errors or omissions. The only warranties for Kyocera's products and services are as set forth in the express warranty statements accompanying them. Nothing herein shall be construed as constituting an additional warranty.

Recommendations when using your Kyocera product

This section explains how the appropriate security settings on the product help users feel confident in protecting their critical data/information at rest and in transit in a secure manner, including possible security risks.

NOTE

The following settings described in this document are indicated only as suggestions/recommendations for security best-practice in common workplaces. Determine the recommended settings before configuring the Kyocera products in user's environment.

In the Installation Phase

Identification, Authentication and Authorization

Administrator Password

We strongly recommend the password should be set suitably for each user's environment to ensure that users can use Kyocera products securely with ease. By factory default, a unique password is set for each machine. However, the administrator password should be changed from its factory default value. The administrator password should be complex and difficult to guess and should not be shared with anyone who does not need access.

If the administrator password is not set, and the product is left at its factory default settings, there is a risk that alteration or unauthorized access to the device settings and network settings stored in the product could be allowed. This causes the possibility of sensitive and personal information leaks.

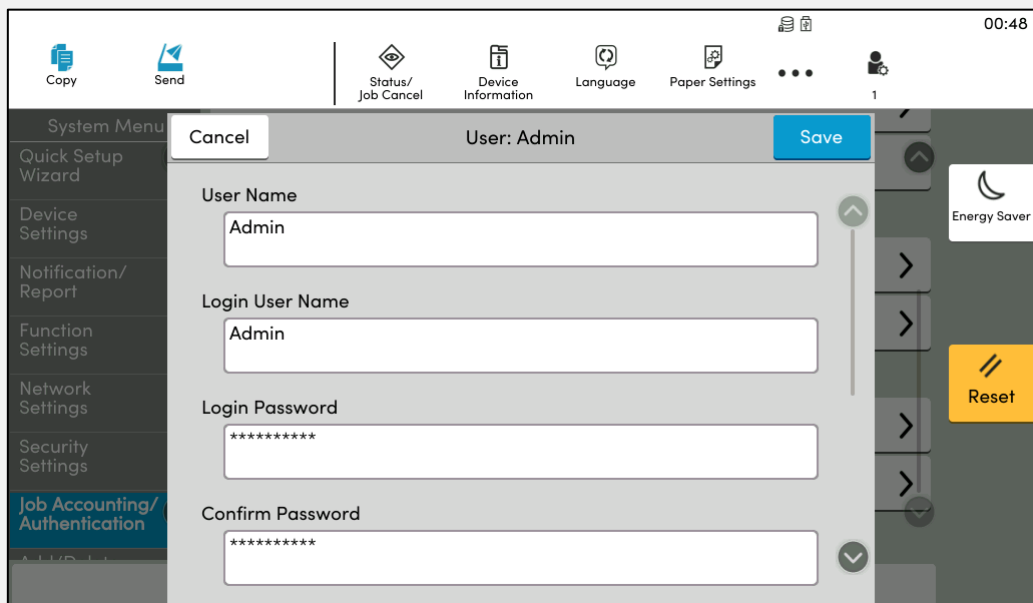
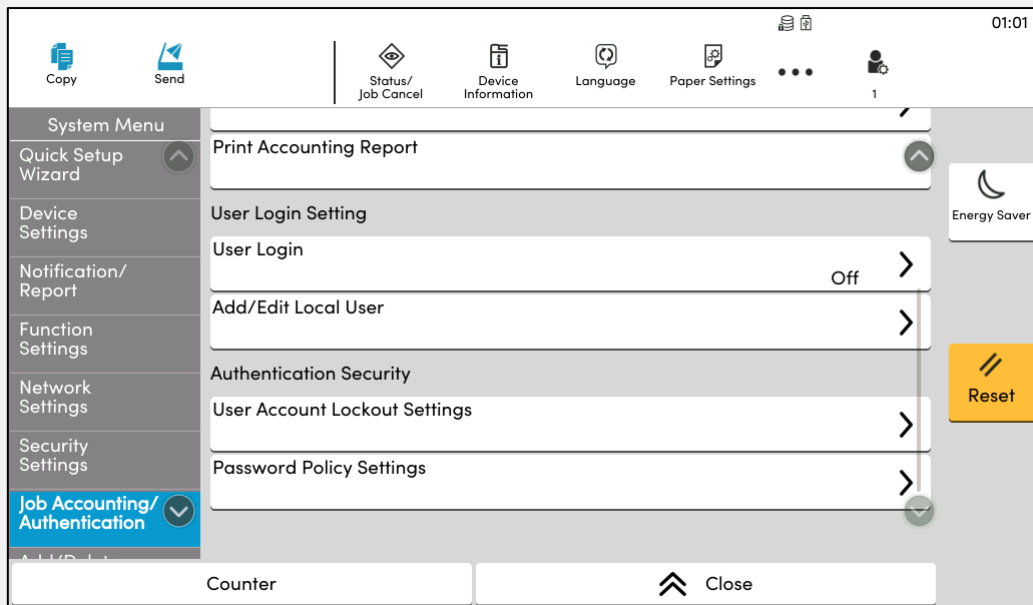
The unique administrator password setting helps protect the product against unauthorized access or use.

E.g.)

<From the Operational Panel of the product>

Configuring Administrator (Admin) Password Setting

1. Click **Job Accounting/Authentication** > **User Login Setting** > **Add/Edit Local User**.
2. Select **Admin**.
3. Input **Login Password** and **Confirm Password**.
4. Click **Save**.



The screens may vary depending on the product model.

Password Policy

Password policy should be set that encourages users to employ unguessable strong passwords.

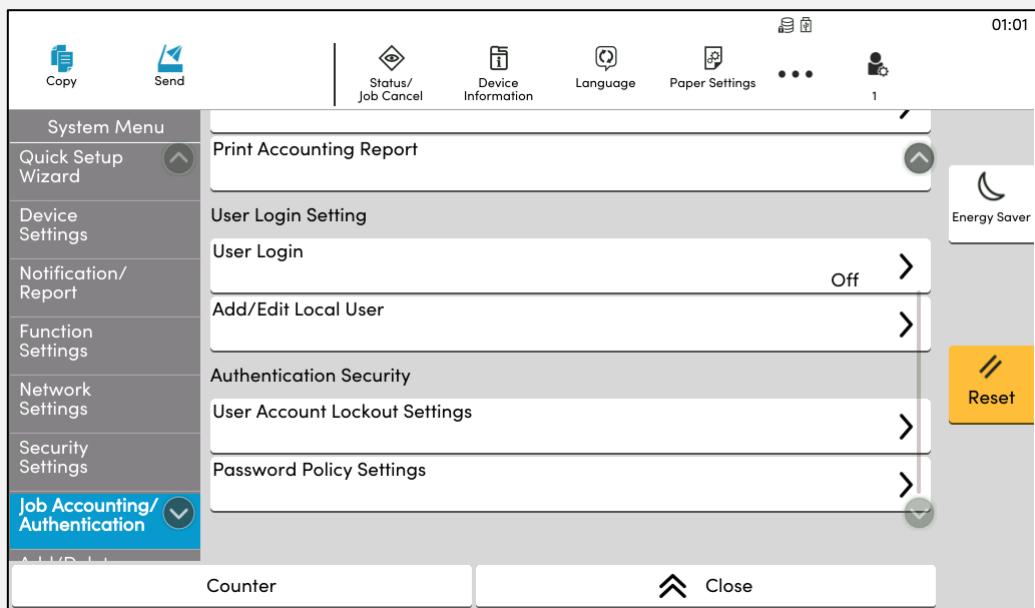
A password that does not meet the password policy should be prohibited. Otherwise, it is easy to be analyzed by attackers.

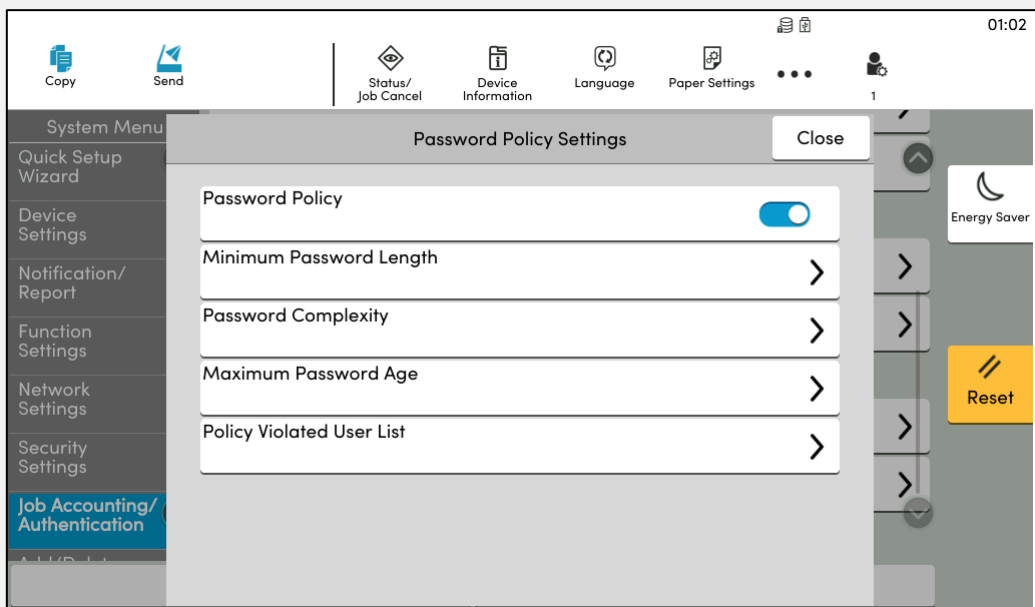
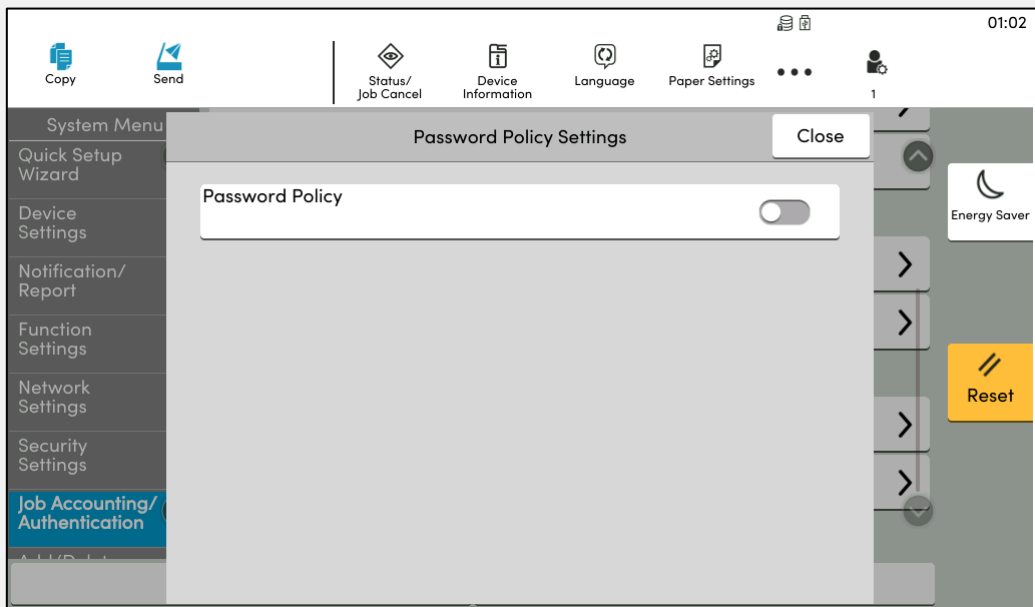
The password policy helps prevent simple passwords from being set by users and guards against unauthorized access by a third party.

E.g.)

<From the Operational Panel of the product>

1. Click **Job Accounting/Authentication** > **Authentication Security**.
2. Select **Password Policy Settings**.
3. Switch to **On** > **Password Policy**.





The screens may vary depending on the product model.

E.g.)

<From Web Connection>

Configuring Password Policy Settings

1. Click **Security Settings > Device Security**
2. Specify the required settings such as **Password Policy Settings** as indicated in the red box.
3. Click **Submit**.

The screenshot displays the 'Command Center RX' web interface. The top header shows the device model 'ECOSYS MA6000ifx', host name 'KMCBF2B2', and a user 'Admin'. The left sidebar contains navigation links: Home, Device Information / Remote Operation, Job Status, Document Box, Address Book, Device Settings, Function Settings, Network Settings, Security Settings (highlighted), Management Settings, and Links. The 'Security Settings' section is expanded, showing 'Device Security', 'Send Security', 'Network Security', and 'Certificates'. The 'Device Security' sub-section is selected, displaying 'Authentication Security Settings'. This section is highlighted with a red box and includes the following settings:

- Password Policy Settings**
 - Password Policy : ☒ On
 - Maximum password age : ☒ On
 - Minimum password length : ☒ On
 - Password complexity :
 - ☒ Reject common PW and 3 consecutive same chars
 - ☐ At least one uppercase letter (A-Z)
 - ☒ At least one lowercase letter (a-z)
 - ☒ At least one number (0-9)
 - ☐ At least one symbol
 - Password Policy Violated User List :
- User Account Lockout Settings**
 - Lockout Policy : ☒ On
 - Number of Retries until Locked : 3 time(s)
 - Lockout Duration : 1 minutes
 - Lockout Target : ☐ All ☒ Remote Login Only
 - Locked out Users List :
- Unusable Time Settings**

At the bottom, a note states: '* : For these settings to take effect, click Submit and then restart the device and network. Restart the device or network on this page: [Restart/Reset](#)'. Below this note are two buttons: 'Reset' and 'Submit'.

User Account Lockout Policy

User Account Lockout Policy should be set to strictly control access to the product.

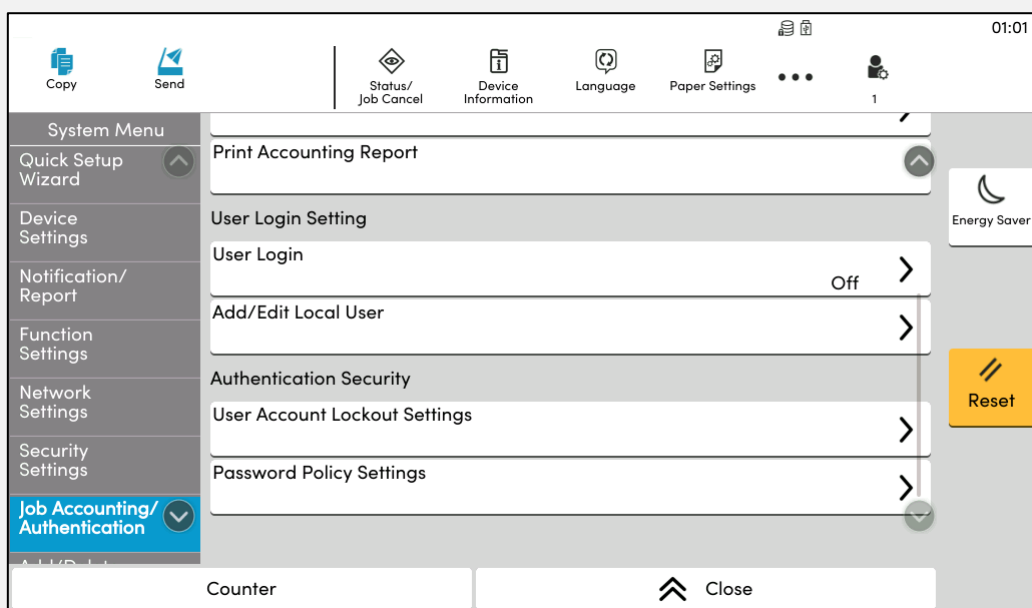
The User Account Lockout Policy detects failed login attempts with incorrect passwords that has repeatedly occurred more than the pre-set number of times and immediately locks the user account for a certain period of time.

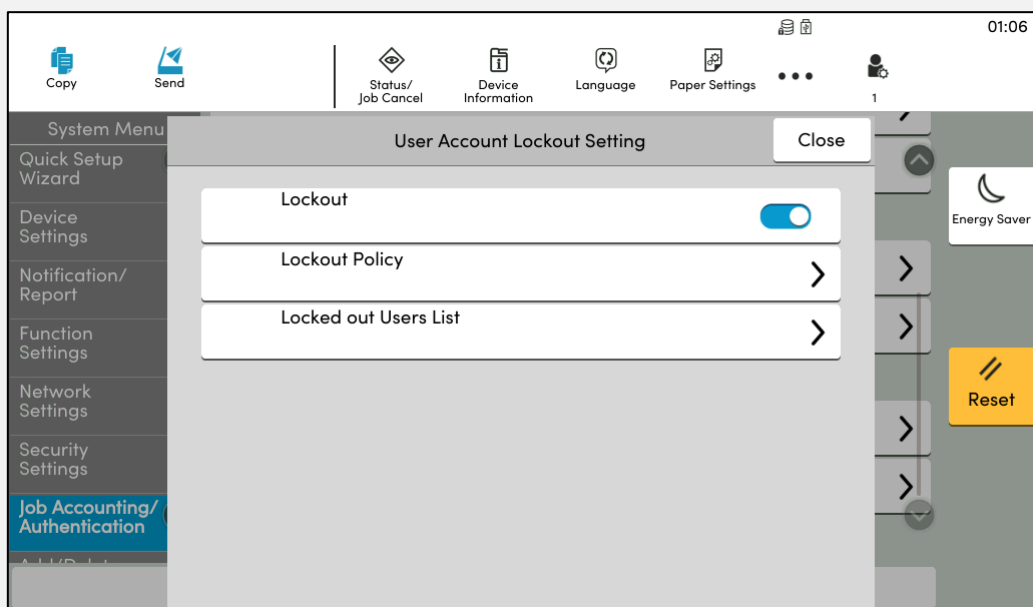
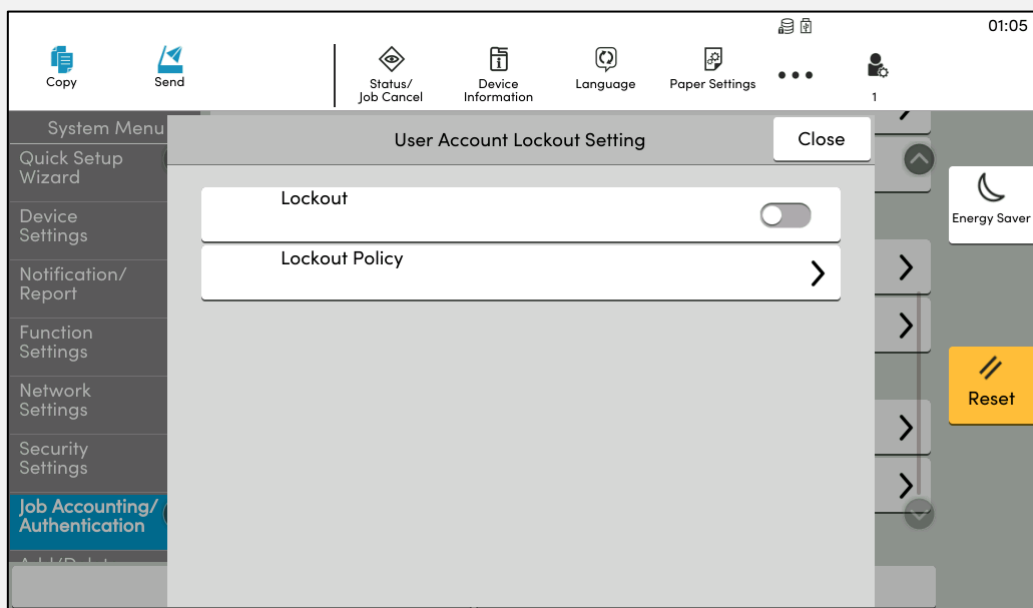
The User Account Lockout Policy helps guard against Denial of Service attacks or Brute Force attacks on the product.

E.g.)

<From the Operational Panel of the product>

1. Click > **Job Accounting/Authentication** > **Authentication Security**.
2. Select **User Account Lockout Settings** > **Lockout, Lockout Policy**.
3. In Lockout, Switch to **On**.





The screens may vary depending on the product model.

E.g.)

<From Web Connection>

Configuring User Account Lockout Policy Settings

1. Click **Security Settings > Device Security**.
2. Specify the required settings such as **User Account Lockout Settings** as shown in the remote screen.
3. Click **Submit**.

The screenshot displays the Command Center RX web interface. The top header shows the device model (ECOSYS MA6000ifx), host name (KMCBF2B2), and location. A sidebar on the left contains navigation links: Home, Device Information / Remote Operation, Job Status, Document Box, Address Book, Device Settings, Function Settings, Network Settings, Security Settings (highlighted), Management Settings, and Links. The main content area is titled 'Security Settings : Device Security' and is divided into three sections: Authentication Security Settings, User Account Lockout Settings (highlighted with a red box), and Unusable Time Settings. The User Account Lockout Settings section includes a 'Lockout Policy' toggle set to 'On', a 'Number of Retries until Locked' dropdown set to '3' time(s), a 'Lockout Duration' dropdown set to '1' minutes, and a 'Lockout Target' radio button selection with 'Remote Login Only' chosen. A 'User List' button is located below these settings. The Unusable Time Settings section contains a note about restarting the device and network after submission, with 'Restart/Reset' links. At the bottom right, there are 'Reset' and 'Submit' buttons.

Command Center RX
Model : ECOSYS MA6000ifx
Host Name : KMCBF2B2
Location : English

Admin
Last Updated : 2024/10/18 00:53:34

Home
Device Information / Remote Operation
Job Status
Document Box
Address Book
Device Settings
Function Settings
Network Settings
Security Settings
Device Security
Send Security
Network Security
Certificates
Management Settings
Links

Security Settings : Device Security

Authentication Security Settings

Password Policy Settings

Password Policy : On

Maximum password age : On

1 day(s)

Minimum password length : On

6 character(s)

Password complexity :

☒ Reject common PW and 3 consecutive same chars

☐ At least one uppercase letter (A-Z)

☒ At least one lowercase letter (a-z)

☒ At least one number (0-9)

☐ At least one symbol

Password Policy Violated User List : User List

User Account Lockout Settings

Lockout Policy : On

Number of Retries until Locked : 3 time(s)

Lockout Duration : 1 minutes

Lockout Target : ☐ All ☒ Remote Login Only

Locked out Users List : User List

Unusable Time Settings

* : For these settings to take effect, click Submit and then restart the device and network.
Restart the device or network on this page: [Restart/Reset](#)

Reset Submit

Product Management Interface

Access credentials (i.e., an administrator login and password) input to the product management interface should be registered in advance.

If access to the product management interface by general users is not restricted, this could cause unauthorized use or setting change of the product.

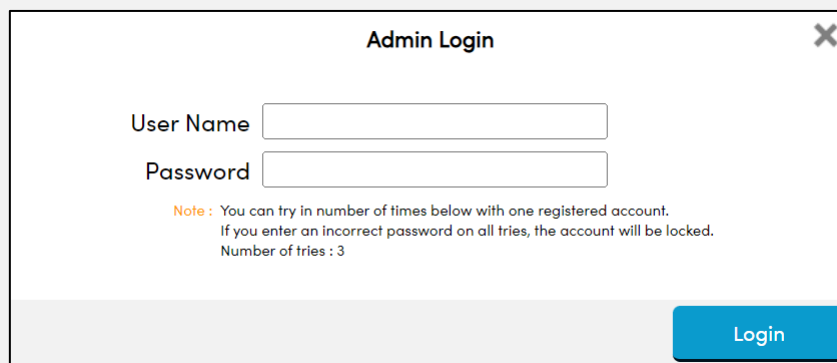
Kyocera offers the product management interface (i.e., Command Center Remote extensions) that enables a user who has an administrator privilege only to have real time access to check and change various settings of the Kyocera product over the network remotely (via a web browser), thereby protecting the product against unauthorized use and changing settings.

E.g.)

<From Web Connection>

Configuring Web-Based Administrator Login

1. Click Login or **Admin Login** in the upper right corner of the remote screen, then the Admin Login screen appears.
2. Enter the **User Name** and **Password**.
3. Click **Login**.

A screenshot of the 'Admin Login' dialog box. The dialog has a title bar with 'Admin Login' and a close button (X). Inside, there are two input fields: 'User Name' and 'Password'. Below the fields is a note: 'Note: You can try in number of times below with one registered account. If you enter an incorrect password on all tries, the account will be locked. Number of tries : 3'. At the bottom right is a blue 'Login' button.

Admin Login

User Name

Password

Note : You can try in number of times below with one registered account.
If you enter an incorrect password on all tries, the account will be locked.
Number of tries : 3

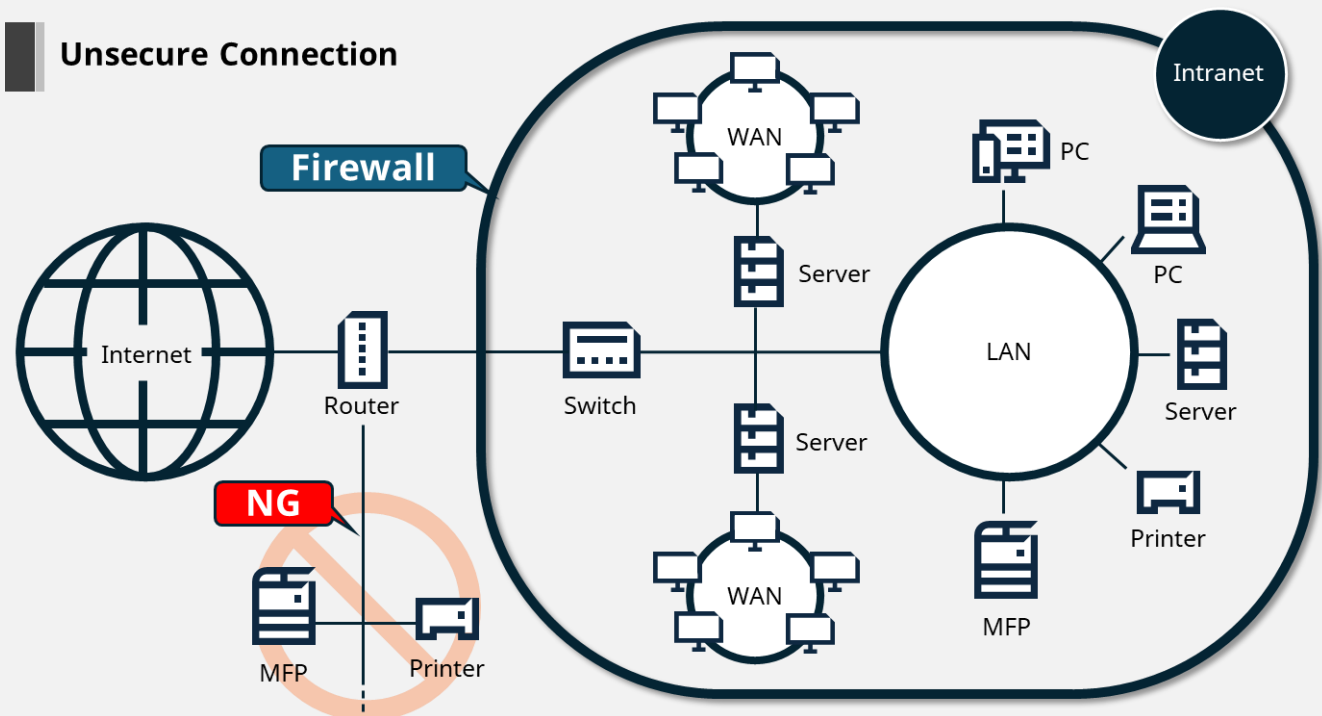
Login

Network Security

Internet Connection

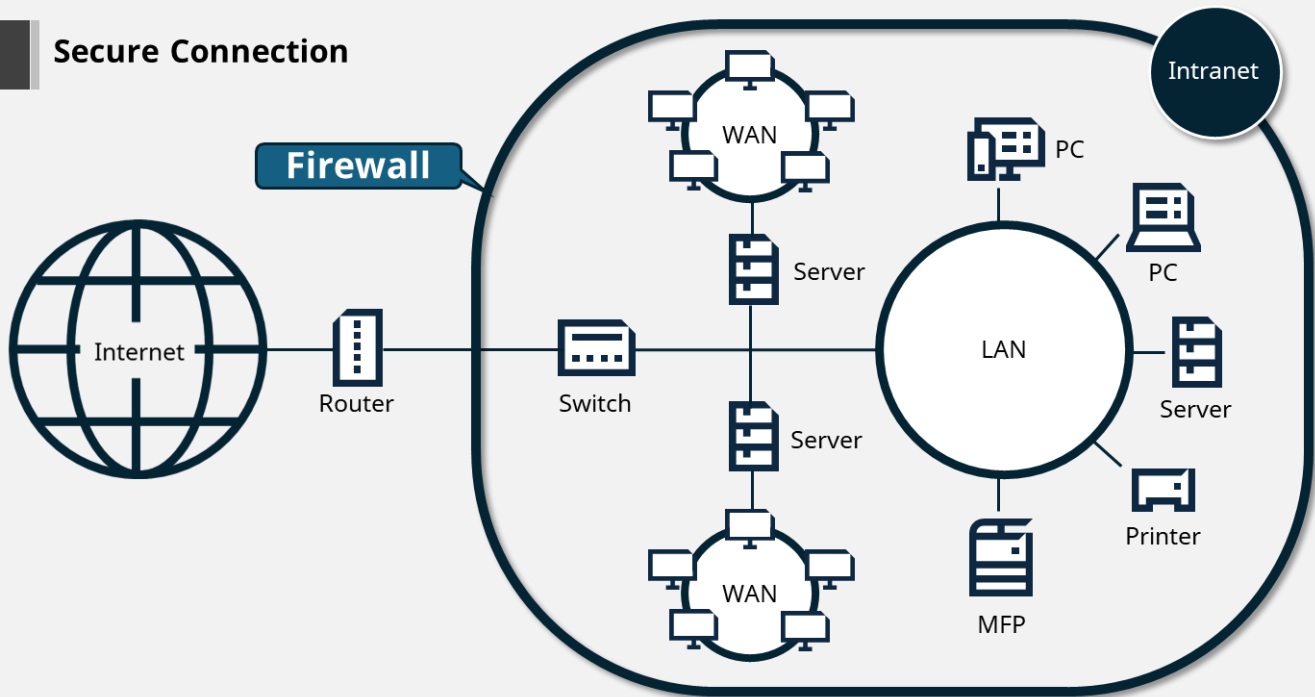
A product should not be connected directly to the Internet. A local IP address should be assigned to the product, which is connected to an internal network (LAN) with firewall/router protection, separated from the external network.

If the product is connected directly to the Internet without a firewall/router that enables to control access from the Internet, the product is directly exposed to attacks from the external network. In other words, the data stored on the product when copying, printing and faxing, and the personal data such as address book entries are exposed and can be viewed from the external network. This causes risks for unauthorized access to the product, resulting in alteration of security settings and send destination, and data leaks.



Accessible by unspecified number of users from the Internet (i.e., from the external network)

Secure Connection



Accessible only by legitimated users on LAN (i.e., inhouse)

The following data should be protected:

- Data stored in HDD/SSD on the product
- Data stored in User Box/Job Box/FAX Box inside the product
- Destinations registered on the destination list such as address book and personally identifiable information
- Data stored in Shared Box
- Device settings
- Audit Logs

NOTE

Since the product is a network-connected device, it should restrict network access, the use of network protocols and ports, and deter malware. Administrators should set enable/disable FTP, HTTP, IPP, SMTP, RAW, SNMP and other common protocols on a product basis to block unnecessary connections. Also, the use of the product should be restricted by setting of IP address, allowing only the specified ranges of IP addresses (and subnet mask combinations) to be permitted/rejected access to the product and to send/receive documents. In addition, the product should be able to use encryption protocols such as SSL/TLS and IPsec to protect data in transit over the network. Finally, Kyocera obtained Wi-Fi CERTIFIED WPA 3 certification. The products that support this feature offer more robust protection against unauthorized use. This helps prevent attacks like KRACKs and Brute-force.

E.g.)

<From Web Connection>

Configuring Protocol Settings

1. Click **Network Settings > Protocol**.
2. Specify the required settings to switch **Off/On** for any of the protocols as shown in the remote screen.
3. Click **Submit**.

The screenshot displays the 'Command Center RX' web interface. The top header shows the model 'ECOSYS MA6000ifx', host name 'KMCFB2B2', and location. A language dropdown is set to 'English', and there is an 'Auto-refresh' checkbox. The user is logged in as 'Admin'. The left sidebar contains navigation links: Home, Device Information / Remote Operation, Job Status, Document Box, Address Book, Device Settings, Function Settings, **Network Settings** (highlighted), Security Settings, Management Settings, and Links. Under 'Network Settings', the sub-menu 'Protocol' is selected. The main content area is titled 'Network Settings : Protocol' and lists various protocols with toggle switches: NetBEUI (Off), LPD (Off), FTP Server (Reception) (Off), IPP (Off), and IPP over TLS (On). Below these, there is a 'Port Number' field set to 443 (range 1-32767) and a section for 'IPP over TLS Certificate' with a 'Settings' button. Further down are 'IPP Authentication' (Off), 'Raw' (Off), 'WSD Print' (Off), and 'POP3 (E-mail RX)' (Off). Several notes are present: one about enabling TLS for IPP over TLS, one about WSD Print settings, and one about email settings. A final note at the bottom states that settings require a restart. At the bottom right, there are 'Reset' and 'Submit' buttons.

Command Center RX
Model : ECOSYS MA6000ifx
Host Name : KMCFB2B2
Location :
English
Auto-refresh
Last Updated : 2024/10/18 00:31:08

Home
Device Information / Remote Operation
Job Status
Document Box
Address Book
Device Settings
Function Settings
Network Settings
General
TCP/IP
Protocol
Security Settings
Management Settings
Links

Network Settings : Protocol

Print Protocols

*NetBEUI : Off

*LPD : Off

*FTP Server (Reception) : Off

*IPP : Off

*IPP over TLS : On

Note :
To use these settings, enable TLS. [Network Security](#)

*Port Number : 443 (1 - 32767)

*IPP over TLS Certificate :
Device Certificate 1
Settings

IPP Authentication : Off

*Raw : Off

*WSD Print : Off

Note :
This setting is used commonly with WSD Print and WSD Scan.

POP3 (E-mail RX) : Off

Note :
For more settings, click here. [E-mail Settings](#)

Note :
E-mail printing is unavailable if remote printing is not enabled. [Printer Settings](#)

* : For these settings to take effect, click Submit and then restart the device and network.
Restart the device or network on this page: [Restart/Reset](#)

Reset Submit

E.g.)

<From Web Connection>

Configuring IP Filter(IPv4) Settings

1. Click **Network Settings > TCP/IP.**
2. Set IP Filters (IPv4) to **On.**
3. In Filter Type, select either **Allowed** or **Denied.**
4. If necessary, set Always Allow ICMP to **On.**
5. Click **Settings.**

Configuring IP Filter(IPv6) Settings

1. Click **Network Settings > TCP/IP.**
2. Set IP Filters (IPv6) to **On.**
3. In Filter Type, select either **Allowed** or **Denied.**
4. If necessary, set Always Allow ICMP to **On.**
5. Click **Settings.**

Command Center RX
Model : ECOSYS MA6000ifx
Host Name : KMCBF2B2
Location : English ☐ Auto-refresh Last Updated : 2024/10/18 00:36:35

Network Settings

- Home
- Device Information / Remote Operation
- Job Status
- Document Box
- Address Book
- Device Settings
- Function Settings
- Network Settings**
 - General
 - TCP/IP**
 - Protocol
- Security Settings
- Management Settings
- Links

Network Settings : TCP/IP

IP Filter(IPv4) Settings

- *IP Filters (IPv4) : ☒ On
- *Filter Type : ☒ Allowed ☐ Denied
- *Always Allow ICMP : ☒ On
- [Settings](#)

IP Filter(IPv6) Settings

- *IP Filters (IPv6) : ☒ On
- *Filter Type : ☒ Allowed ☐ Denied
- *Always Allow ICMP : ☒ On
- [Settings](#)

Logical Printers [Settings](#)

IPSec Settings

- *IPSec : ☒ On
- *Expiration Verification : ☒ On
- *Restriction : ☒ Allowed ☐ Denied
- Note :
"Allowed" means normal traffic / not defined by the IPSec.

* : For these settings to take effect, click Submit and then restart the device and network.
Restart the device or network on this page: [Restart/Reset](#)

[Reset](#) [Submit](#)

E.g.)

<From Web Connection>

Configuring Network Access Settings

1. Click **Security Settings > Network Security**.
2. Specify the required settings such as **Filtering/Firewall, SNMPv1/v2c, SNMPv3, TLS, IEEE802.1X, and IPSec**.
3. Click **Submit**.

Command Center RX

Model : ECOSYS MA6000ifx
Host Name : KMICBF2B2
Location : English

Admin

Auto-refresh Last Updated : 2024/10/18 00:40:34

Home

Device Information / Remote Operation

Job Status

Document Box

Address Book

Device Settings

Function Settings

Network Settings

Security Settings

Device Security

Send Security

Network Security

Certificates

Management Settings

Links

Security Settings : Network Security

Effective Encryption :

☐ ARCFOUR ☐ DES

☐ 3DES ☒ AES

☒ AES-GCM ☒ CHACHA20/POLY1305

Note :
Automatically use the appropriate encryption when selecting more than one effective encryption.

Hash :

☐ SHA1 ☒ SHA2(256/384)

Network Access Settings

Filtering/Firewall :
Network access to the device can be restricted to allow only specific network addresses.
Refer to this link. [IP Filter\(IPv4\) Settings](#)
[IP Filter\(IPv6\) Settings](#)

SNMPv1/v2c :
The SNMP Read and Write Community settings function as passwords to control read and write access to the device via SNMP.
Refer to this link. [SNMP Settings](#)

SNMPv3 :
The SNMPv3 communication settings are used to control authentication and encryption communication that occur via SNMP.
Refer to this link. [SNMP Settings](#)

TLS :
To use TLS communication, Secure Protocols must be enabled.
See Secure Protocol Settings at the top of this page.

IEEE802.1X :
To use IEEE802.1X communication, IEEE802.1X communication must be enabled.
Refer to this link. [IEEE802.1X Settings](#)

IPSec :
To use IPSec communication, IPSec must be enabled.
Refer to this link. [TCP/IP](#)

* : For these settings to take effect, click Submit and then restart the device and network.
Restart the device or network on this page: [Restart/Reset](#)

Reset Submit

E.g.)

<From Web Connection>

Configuring IP Settings (Wired Network)

1. Click **Network Settings > TCP/IP**.
2. This screen includes the following items for configuration: **DHCP/BOOTP, Auto-IP, IP Address, Subnet Mask, Domain Name, DNS Server, DNS Search Suffix, DNS over TLS, Certificate Auto Verification, Hash, and WINS Server**.
3. Click **Submit**.

The screenshot displays the 'Command Center RX' web interface. The top header shows the model 'ECOSYS MA6000ifx', host name 'KMICBF282', and location. A language dropdown is set to 'English'. The user is logged in as 'Admin'. The left sidebar contains navigation links: Home, Device Information / Remote Operation, Job Status, Document Box, Address Book, Device Settings, Function Settings, Network Settings (highlighted), General, TCP/IP, Protocol, Security Settings, Management Settings, and Links. The main content area is titled 'Network Settings : TCP/IP' and shows 'IPv4 Settings (Wired Network)'. The configuration options include: DHCP/BOOTP (On), Auto-IP (On), IP Address (192.168.11.66), Subnet Mask (255.255.255.0), Domain Name, DNS Server (Use DNS Server from DHCP), DNS Search Suffix (Use DNS Search Suffix from DHCP), DNS over TLS (On), Certificate Auto Verification (Validity Period checked), Hash (SHA2(256/384) checked), and WINS Server (Use WINS Server from DHCP). A note at the bottom states: '* : For these settings to take effect, click Submit and then restart the device and network. Restart the device or network on this page: [Restart/Reset](#)'. At the bottom right are 'Reset' and 'Submit' buttons.

E.g.)

<From Web Connection>

Configuring IPSec Settings

1. Click **Network Settings > TCP/IP**.
2. Switch to **On** to use IPSec protocol.
3. Specify the required settings such as **Expiration Verification, Restriction, and Root Certificate**.
4. Click **Submit**.

Command Center RX

Model : ECOSYS MA6000ifx
Host Name : KMCBF2B2
Location : English

Admin

Auto-refresh Last Updated : 2024/10/18 00:48:58

Home
Device Information / Remote Operation
Job Status
Document Box
Address Book
Device Settings
Function Settings
Network Settings
General
TCP/IP
Protocol
Security Settings
Management Settings
Links

↑ Network Settings : TCP/IP

IPSec Settings

*IPSec : ☒ On

*Expiration Verification : ☒ On

*Restriction : ☒ Allowed ☐ Denied

Note :
"Allowed" means normal traffic (not defined by the IPSec rules) will be allowed to reach the device in addition to the IPSec traffic (as defined by the IPSec rules).
"Denied" means only IPSec traffic (as defined by the IPSec rules) will be allowed to reach the device and all other traffic (not defined by the IPSec rules) will be denied to reach the device.

Root Certificate :

Root Certificate 1 Subject :

Root Certificate 2 Subject :

Root Certificate 3 Subject :

Root Certificate 4 Subject :

Root Certificate 5 Subject :

Note :
Make settings for Device Certificates here: [Certificates](#)

* : For these settings to take effect, click Submit and then restart the device and network.
Restart the device or network on this page: [Restart/Reset](#)

Restart Submit

NOTE

At Kyocera, we conduct our own vulnerability tests and penetration tests performed by a third party to ensure the security for our products without vulnerabilities. However, if the product is connected directly to the Internet, customers are facing security risks for the product.

TLS Encrypted Communication

When accessing a product through a web browser or network printing, the communication data in transit should be encrypted by enabling the TLS protocol. Communication destination should also be checked if it is a legitimate connection destination. TLS protocol helps prevent tapping and alteration and makes it difficult to analyze the data.

If TLS encrypted communication is not supported, this causes risks for alteration, leakage, tapping of settings information and print data, sending information to unauthorized destinations (i.e., devices), and unauthorized access to the product from the external network.

Depending on the security level corresponding to each organization's environment, a stronger version of encryption protocol (e.g., TLS 1.3) or encryption algorithm (AES) can be set. Self-certificates and CSR certificates support secure and stronger level of TLS 1.3/SHA-2.

NOTE

Use available stronger encryption for communication.

Kyocera products support TLS encryption protocols including TLS1.0, 1.1, 1.2, and 1.3. The availability of these features depends on the product model.

E.g.)

<From Web Connection>

Configuring TLS

1. Click **Security Settings > Network Security**.
2. Specify the required settings such as **TLS Version (TLS1.0/TLS1.1/TLS1.2/TLS1.3)**, **Effective Encryption (ARCFOUR/DES/3DES/AES/AES-GCM/CHACHA20/POLY1305)**, **Hash (SHA1/SHA2(256/384))**, **HTTP Security (Secure Only (HTTPS)/Not Secure (HTTPS & HTTP))**, **IPP Security (Secure Only (IPPS)/Not Secure (IPPS & IPP))**, **Enhanced WSD Security (Secure Only (Enhanced WSD over TLS)/Not Secure (Enhanced WSD over TLS & Enhanced WSD))**, **eSCL Security (Secure Only (eSCL over TLS)/Not Secure (eSCL over TLS & eSCL))**, **REST Security (Secure Only (REST over TLS)/Not Secure (REST over TLS & REST))**, and **Clientside Settings**.
3. Click **Submit**.

Command Center RX
Model : ECOSYS MA6000ifx
Host Name : KMCBF2B2
Location : English

Admin
Last Updated : 2024/10/18 01:20:11

Home
Device Information / Remote Operation
Job Status
Document Box
Address Book
Device Settings
Function Settings
Network Settings
Security Settings
Device Security
Send Security
Network Security
Certificates
Management Settings
Links

Security Settings : Network Security

Secure Protocol Settings

*TLS : ☒ On
Note : If you select Off, TLS cannot be used for communication.

Serverside Settings :

*TLS Version : ☐ TLS1.0 ☐ TLS1.1 ☒ TLS1.2 ☒ TLS1.3

*Effective Encryption : ☐ ARCFOUR ☐ DES ☐ 3DES ☒ AES ☒ AES-GCM ☒ CHACHA20/POLY1305

*Hash : ☐ SHA1 ☒ SHA2(256/384)

*HTTP Security : ☒ Secure Only (HTTPS) ☐ Not Secure (HTTPS & HTTP)

*IPP Security : ☒ Secure Only (IPPS) ☐ Not Secure (IPPS & IPP)

*Enhanced WSD Security : ☒ Secure Only (Enhanced WSD over TLS) ☐ Not Secure (Enhanced WSD over TLS & Enhanced WSD)

*eSCL Security : ☒ Secure Only (eSCL over TLS) ☐ Not Secure (eSCL over TLS & eSCL)

*REST Security : ☒ Secure Only (REST over TLS) ☐ Not Secure (REST over TLS & REST)

Clientside Settings :

TLS Version : ☐ TLS1.0 ☐ TLS1.1 ☒ TLS1.2 ☒ TLS1.3

Effective Encryption : ☐ ARCFOUR ☐ DES

* : For these settings to take effect, click Submit and then restart the device and network.
Restart the device or network on this page: [Restart/Reset](#)

Reset Submit

E.g.)

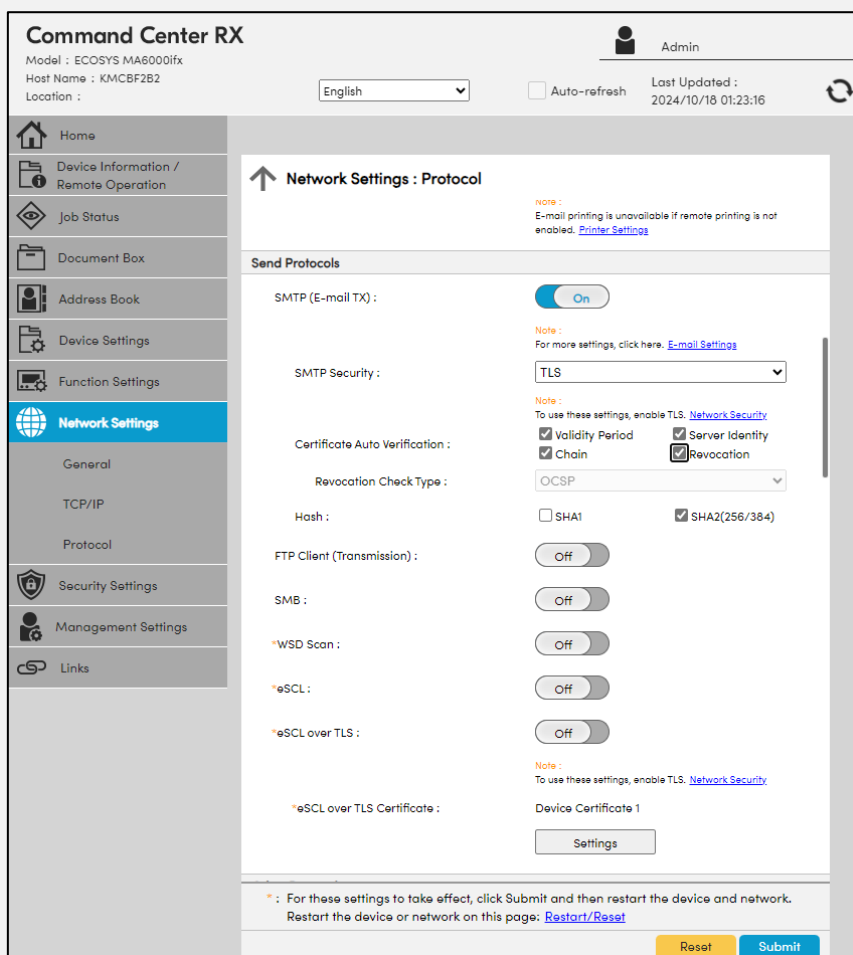
<From Web Connection>

Configuring protocols for sending email

1. Click **Network Settings > Protocol**.
2. In SMTP (E-mail TX), switch to **On**.
3. In SMTP Security, select **TLS**.
4. In Certificate Auto Verification, select the check box for the following in sequence: **Validity Period, Server Identity, Chain, and Revocation**.
5. In Revocation Check Type, select from the following: **OCSP, CRL, CRL & OCSP**.
6. For Hash algorithm, select the box for either **SHA1** or **SHA2(256/384)**.

NOTE

The remote screen shows an example to confirm a communication destination if it is a legitimate connection destination.



The screenshot displays the 'Command Center RX' web interface. The top header shows the device model 'ECOSYS MA6000ifx', host name 'KMCBF2B2', and location. A language dropdown is set to 'English'. The left sidebar contains navigation links: Home, Device Information / Remote Operation, Job Status, Document Box, Address Book, Device Settings, Function Settings, **Network Settings** (selected), Security Settings, Management Settings, and Links. The 'Network Settings' section is expanded, showing 'General', 'TCP/IP', and 'Protocol'. The 'Protocol' page is titled 'Network Settings : Protocol' and includes a note about email printing. The 'Send Protocols' section shows 'SMTP (E-mail TX)' set to 'On'. 'SMTP Security' is set to 'TLS'. 'Certificate Auto Verification' has checkboxes for 'Validity Period', 'Server Identity', 'Chain', and 'Revocation', all of which are checked. 'Revocation Check Type' is set to 'OCSP'. 'Hash' is set to 'SHA2(256/384)'. Other protocols like 'FTP Client (Transmission)', 'SMB', 'WSD Scan', 'eSCL', and 'eSCL over TLS' are all set to 'Off'. At the bottom, there is a note about restarting the device and network, and buttons for 'Reset' and 'Submit'.

E.g.)

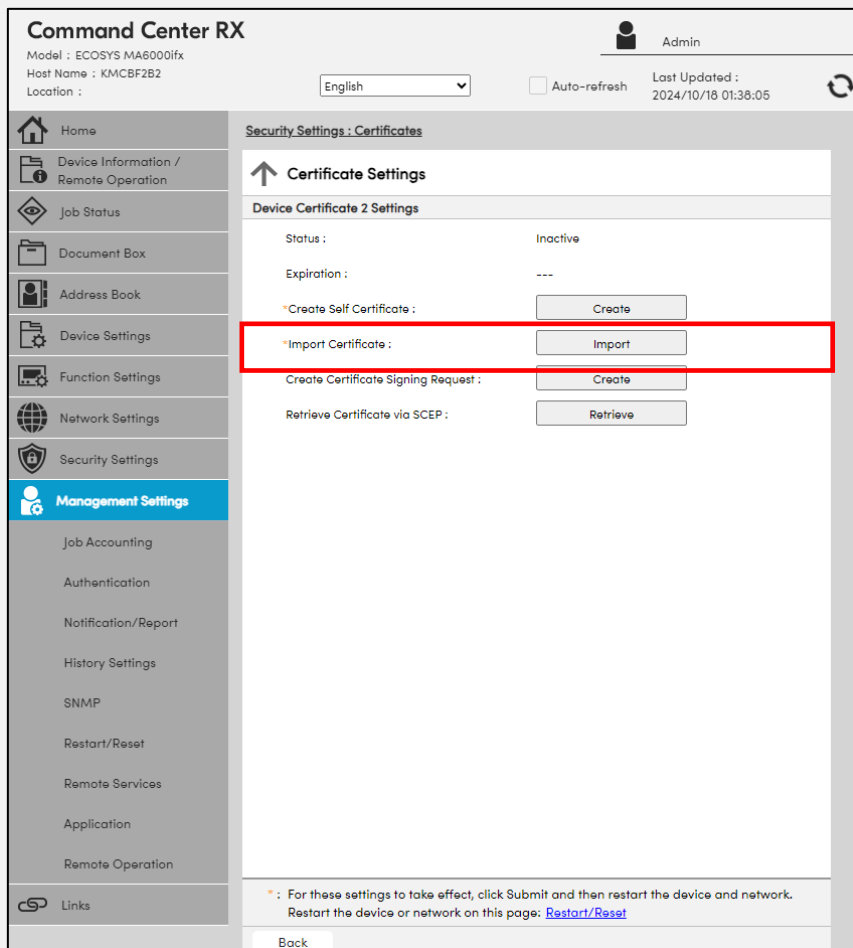
<From Web Connection>

Importing a CA-Issued Certificate

1. Click **Security Settings > Certificate Settings**.
2. In Import Certificate, select **Import** on a root certificate.
3. Select **Choose File** to browse for the certificate file.
4. Select **Open**.
5. Click **Submit** after importing the root certificate.

NOTE

The remote screen shows an example of management settings for the respective certificate settings. We recommend a CA-issued certificate be imported for a device certificate as indicated in the red box.



The screenshot displays the 'Command Center RX' web interface. The top header shows the device model 'ECOSYS MA6000ifx', host name 'KMCFB2B2', and location. A language dropdown is set to 'English', and there is an 'Auto-refresh' checkbox. The user is logged in as 'Admin', and the page was last updated on '2024/10/18 01:38:05'. The left sidebar contains navigation links: Home, Device Information / Remote Operation, Job Status, Document Box, Address Book, Device Settings, Function Settings, Network Settings, Security Settings, Management Settings (highlighted), and Links. The main content area is titled 'Security Settings : Certificates' and 'Certificate Settings'. Under 'Device Certificate 2 Settings', the status is 'Inactive'. There are four rows of settings, each with a button: 'Create Self Certificate' (Create), 'Import Certificate' (Import, highlighted with a red box), 'Create Certificate Signing Request' (Create), and 'Retrieve Certificate via SCEP' (Retrieve). A note at the bottom states: '* : For these settings to take effect, click Submit and then restart the device and network. Restart the device or network on this page: [Restart/Reset](#)'. A 'Back' button is at the bottom left.

Stored Data Protection

HDD/SSD Encryption

Any encryptions available for the product should be used and security features supported should be used to ensure the product is as secure/strong as possible.

Image data obtained when copying, printing, faxing and scanning is stored on an HDD/SSD inside the product. User registration, device settings, and address books are also stored on the drives. If the HDD/SSD is removed from the product by a malicious person, the data/information stored on the HDD/SSD may be leaked.

By enabling the HDD/SSD encryption feature, data to be stored on an HDD/SSD is encrypted for protection. The encryption algorithm and key length adopt AES (FIPS 197) and 256 bits, respectively, which are used for the government documents. Even if the HDD/SSD is removed from the product by a malicious person, the sensitive or confidential data stored on the HDD/SSD cannot be leaked. Because the data is protected by encryption, it will be impossible to analyze the data even if the drive is connected to a PC analysis tool.

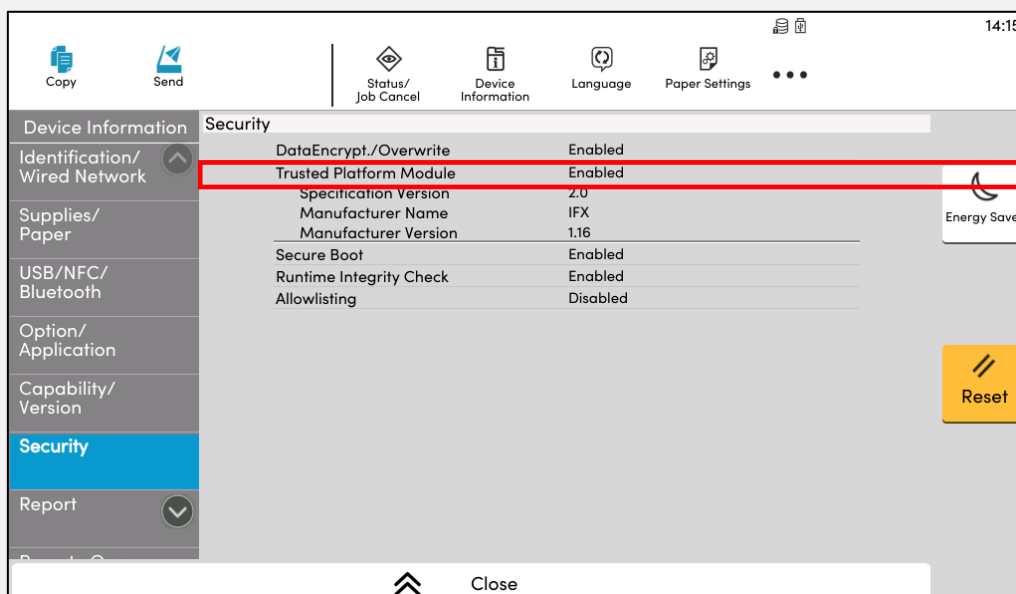
NOTE

*The product will have a cryptographic module, which meets **FIPS 140-3** level 2 requirements. The cryptographic module is designed and implemented by Kyocera. FIPS140-3 certification for its cryptographic module is in the review phase.*

NOTE

The operational panel of the product shows an example of Security Settings for **Trusted Platform Module** setting as indicated in the red box.

Some Kyocera products are equipped with the Trusted Platform Module. An encryption key used for encrypting the HDD is encrypting by a root encryption key contained in the Trusted Platform Module. Certificates are encrypted by the same root encryption key. The HDD encryption key and the root encryption key are saved separately. The root encryption key is rigorously protected within the Trusted Platform Module so that it cannot be disclosed outside of the security chip. Even if the HDD is removed from the product, data stored on the HDD cannot be leaked and is securely protected.



The screens may vary depending on the product model.

Device Management

Audit Logs

Audit logs for all activities (e.g., login logs, device logs, and security communication error logs) on the product are highly recommended to provide administrators with visible records such as when and how the product or document is accessed and handled. In other words, organizations should monitor security logs from the product via SIEM to detect any intrusion in real time. The product should seamlessly communicate with the SIEM using syslog protocol. Therefore, the SIEM server notifies clients of external attacks and threats based on the analysis results.

E.g.)

<From Web Connection>

Configuring settings for Audit Log (Syslog) Setting

1. Click **Management Settings > History Settings**.
2. Displays the status for **Syslog**.
3. In **Destination Server**, enter the address for the destination server.
4. In **Port Number**, enter the port number for Syslog.
5. In **Facility**, select the number of facilities that obtains the log from the drop-down list.
6. In **Severity**, select the severity of obtained log from the drop-down list.

The screenshot displays the 'Command Center RX' web interface. The top header shows the model 'ECOSYS MA6000ifx', host name 'KMCBF2B2', and location. A sidebar on the left contains navigation links: Home, Device Information / Remote Operation, Job Status, Document Box, Address Book, Device Settings, Function Settings, Network Settings, Security Settings, **Management Settings** (highlighted), Job Accounting, Authentication, Notification/Report, History Settings, SNMP, Restart/Reset, Remote Services, Application, Remote Operation, and Links. The main content area is titled 'Management Settings : History Settings' and includes a 'Job Log History' section with fields for Recipient E-mail Address, Subject, Auto Sending (toggle), Number of Records (16), Personal Information (radio buttons for Include/Exclude), and a Run once now button. Below this is the 'Audit Log (Syslog) Setting' section, which is highlighted with a red border. It contains a Syslog status toggle (On), a Destination Server field, a Port Number field (514), a Facility dropdown (6), and a Severity dropdown (7). Notes indicate that settings must be made in Remote Syslog and that the server name should be a domain name or IP address. At the bottom right are 'Reset' and 'Submit' buttons.

Command Center RX	
Model : ECOSYS MA6000ifx	Admin
Host Name : KMCBF2B2	Last Updated : 2024/10/18 01:47:48
Location : English	Auto-refresh

Home

Device Information / Remote Operation

Job Status

Document Box

Address Book

Device Settings

Function Settings

Network Settings

Security Settings

Management Settings

Job Accounting

Authentication

Notification/Report

History Settings

SNMP

Restart/Reset

Remote Services

Application

Remote Operation

Links

Management Settings : History Settings

Job Log History

Recipient E-mail Address :

Subject :

Auto Sending : ☐ Off

Number of Records : (1 - 16)

Personal Information : ☒ Include ☐ Exclude

Run once now :

Audit Log (Syslog) Setting

Syslog : ☐ On

Note : Settings must be made in Remote Syslog. [Protocol](#)

Destination Server :

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

Port Number : (1 - 65535)

Facility :

Severity :

E.g.)

<From Web Connection>

Configuring Event Report/Scheduled Report settings

1. Click **Management Settings > Notification/Report**.
2. In **Syslog Records Kept Alert**, switch to **On**.
3. Click **Submit**.

The screenshot displays the 'Command Center RX' web interface. The top header shows the model 'ECOSYS MA6000ifx', host name 'KMCBF2B2', and a user 'Admin'. A sidebar on the left lists various settings categories, with 'Management Settings' currently selected. The main content area is titled 'Management Settings : Notification/Report'. It contains several configuration sections: 'Event Report / Scheduled Report 1' with fields for recipient email and subject; 'Event Report' with checkboxes for various printer events; 'Event Report Items' with checkboxes for specific error types; 'Event Report Interval' set to 10 minutes; 'Notify when Data Sanitization Starts' set to Off; 'Syslog Records Kept Alert' which is highlighted with a red box and set to On; 'Notify when Malicious Program is Detected' set to On; and 'Scheduled Report' with a dropdown for report items and a 'Send' button. At the bottom right, there are 'Reset' and 'Submit' buttons.

Log Status/Job Logs

Users (i.e., Administrators) should check the product is securely used and checked for unauthorized access, and should update the product settings to control who can access and use the product regularly. To confirm this, Log Status/Job Logs should be set.

These logs provide job information and fax transmission logs such as who has accessed the product, what errors have occurred, and how the functions have been used.

The job logs highly disincentivize unauthorized use of the product or data leaks by a malicious person and allow tracking unauthorized access to the product.

E.g.)

<From Web Connection>

Configuring Job Status/Job Logs Settings

1. Click **Security Settings > Device Security**.
2. In **Display Jobs Details Status, Display Jobs Log**, select **Show All/My Jobs Only/Hide All** from the drop-down list. In **Display Fax Log**, switch to **Show All/Hide All**. In **Pause/Resume of All Print Jobs**, switch to **Prohibit/Permit**.
3. Click **Submit**.

The screenshot shows the 'Command Center RX' web interface. The top header includes the model 'ECOSYS MA6000ifx', host name 'KMCBF2B2', location, language 'English', and a user 'Admin' with a last update timestamp of '2024/10/18 02:05:28'. A sidebar on the left contains navigation links: Home, Device Information / Remote Operation, Job Status, Document Box, Address Book, Device Settings, Function Settings, Network Settings, Security Settings (highlighted), Device Security, Send Security, Network Security, Certificates, Management Settings, and Links. The main content area is titled 'Security Settings : Device Security'. It contains several sections: 'Interface Block' with settings for Network, USB Device, USB Host, USB Drive, and Optional Interface, each with 'Block' and 'Unblock' radio buttons; 'Lock Operation Panel' with an 'Operation Panel' dropdown set to 'Unlock'; 'Job Status/Job Logs Settings' (highlighted with a red box) with settings for 'Display Jobs Detail Status' (dropdown set to 'Hide All'), 'Display Jobs Log' (dropdown set to 'Hide All'), 'Display FAX Log' (radio buttons for 'Show All' and 'Hide All', with 'Hide All' selected), and 'Pause/Resume of All Print Jobs' (radio buttons for 'Prohibit' and 'Permit', with 'Permit' selected); 'Edit Restriction' with settings for 'Address Book' and 'One Touch Key', each with 'Off' and 'Administrator Only' radio buttons; and 'Authentication Security Settings' with a 'Password Policy' toggle set to 'Off'. At the bottom, a note states: '* : For these settings to take effect, click Submit and then restart the device and network. Restart the device or network on this page: [Restart/Reset](#)'. There are 'Reset' and 'Submit' buttons at the bottom right.

Interface Block

Security features supported by the product should be used to ensure the product is as secure/strong as possible. According to the users' security policy, access through the product's interface such as USB Device, USB Host, Optional Interface should be blocked. Network interface should also be restricted on a protocol basis.

If these settings are not proper, risks for data leaks or unauthorized access to data on the product can exist.

These Interface Block settings prevent data leaks from the USB interface via USB memory as well as prevent the spread of viruses.

E.g.)

<From Web Connection>

Configuring Interface Block setting

1. Click **Security Settings > Device Security**
2. In **USB Device, USB Host, USB Drive, and Optional Interface**, switch to Block/Unblock. To configure the detailed settings, go to **Network Settings > Protocol**.
3. Click **Submit**.

Command Center RX

Model : ECOSYS MA6000ifx
Host Name : KMCBF2B2
Location : English Auto-refresh Last Updated : 2024/10/18 02:05:28

Home
Device Information / Remote Operation
Job Status
Document Box
Address Book
Device Settings
Function Settings
Network Settings
Security Settings
Device Security
Send Security
Network Security
Certificates
Management Settings
Links

Security Settings : Device Security

Interface Block

Network : Refer to this link. [Protocol](#)

*USB Device : ☒ Block ☐ Unblock

*USB Host : ☒ Block ☐ Unblock

*USB Drive : ☐ Block ☒ Unblock

*Optional Interface : ☒ Block ☐ Unblock

Lock Operation Panel

Operation Panel :

Job Status/Job Logs Settings

Display Jobs Detail Status :

Display Jobs Log :

Display FAX Log : ☐ Show All ☒ Hide All

Pause/Resume of All Print Jobs : ☐ Prohibit ☒ Permit

Edit Restriction

Address Book : ☐ Off ☒ Administrator Only

One Touch Key : ☐ Off ☒ Administrator Only

Authentication Security Settings

Password Policy Settings

Password Policy :

* : For these settings to take effect, click Submit and then restart the device and network.
Restart the device or network on this page: [Restart/Reset](#)

Reset Submit

Lock Operation Panel

Insiders have a relatively high likelihood of handling their organizations' critical data/information. If some insiders who do not have authorization conduct unauthorized use of the product or its particular features, this may cause critical data/information leaks of data stored on the product.

Therefore, operations on the product panel should be restricted. The partial lock feature controls options in three areas: input/output, job execution, and paper. This feature has the ability to prohibit system menu and job cancelation operations. Only administrators can set these options.

The partial lock feature prevents unauthorized operations on the product.

E.g.)

<From Web Connection>

Configuring Lock Operation Panel setting

1. Click **Security Settings > Device Security**.
2. In **Operational Panel**, select **Lock (Partial Lock 1/ Partial Lock 2/Partial Lock 3)/Unlock** from the drop-down list.
3. Click **Submit**.

The screenshot displays the 'Command Center RX' web interface. The top header shows the model 'ECOSYS MA6000ifx', host name 'KMCBF2B2', and location. A user 'Admin' is logged in. The left sidebar contains navigation links: Home, Device Information / Remote Operation, Job Status, Document Box, Address Book, Device Settings, Function Settings, Network Settings, Security Settings (highlighted), Device Security, Send Security, Network Security, Certificates, Management Settings, and Links. The main content area is titled 'Security Settings : Device Security'. It includes sections for 'Interface Block' (with settings for Network, USB Device, USB Host, USB Drive, and Optional Interface, each with 'Block' and 'Unblock' radio buttons), 'Lock Operation Panel' (with a dropdown menu currently set to 'Unlock'), 'Job Status/Job Logs Settings' (with dropdowns for 'Display Jobs Detail Status' and 'Display Jobs Log', and radio buttons for 'Display FAX Log' and 'Pause/Resume of All Print Jobs'), 'Edit Restriction' (with radio buttons for 'Address Book' and 'One Touch Key'), and 'Authentication Security Settings' (with a 'Password Policy' toggle set to 'Off'). A note at the bottom states: '* : For these settings to take effect, click Submit and then restart the device and network. Restart the device or network on this page: [Restart/Reset](#)'. At the bottom right are 'Reset' and 'Submit' buttons.

In the Operation Phase

Device Management

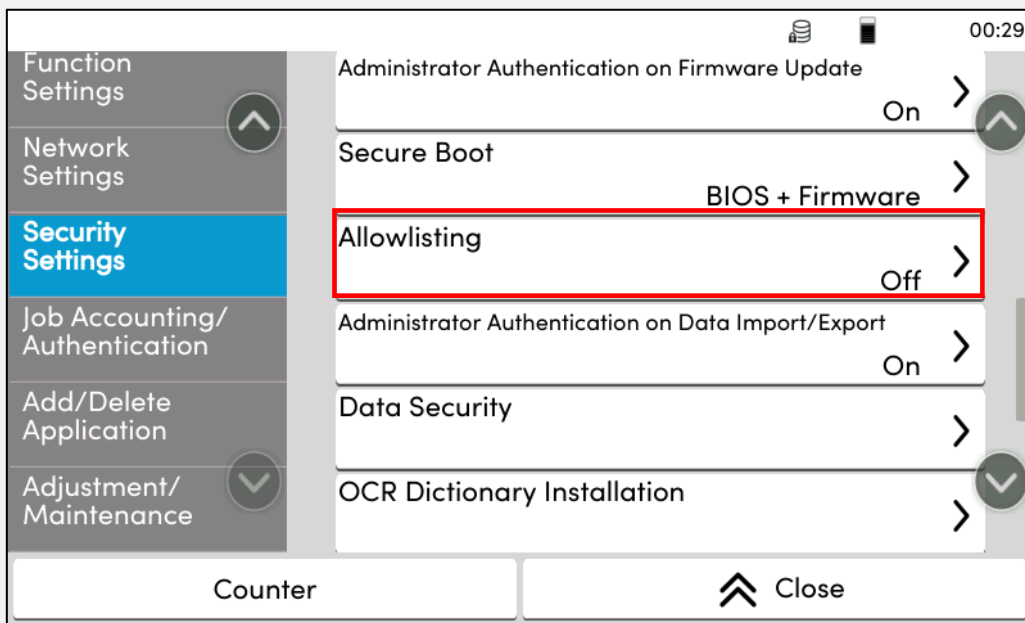
Product Software Management

It is very important for your organization to keep product software up to date on your Kyocera product. To do this, please visit the Kyocera global website regularly to check the latest security-related information.

If your device is still running an outdated software version, it could present an opportunity for exploiting the product with known vulnerabilities. Users should maintain the security and functionality of your product by running the latest software version.

NOTE

As for security level enhancement, **Allowlisting** can be enabled as a malware prevention measure. If an untrusted program file, which is not included in the allowlist, is found, Allowlisting automatically prevents the program from running. The operational panel of the product shows an example of Security Settings for Allowlisting setting as indicated in the red box. By default, Allowlisting is Off. For enablement, administrators can switch Allowlisting to On from the menu.



The screens may vary depending on the product model.

NOTE

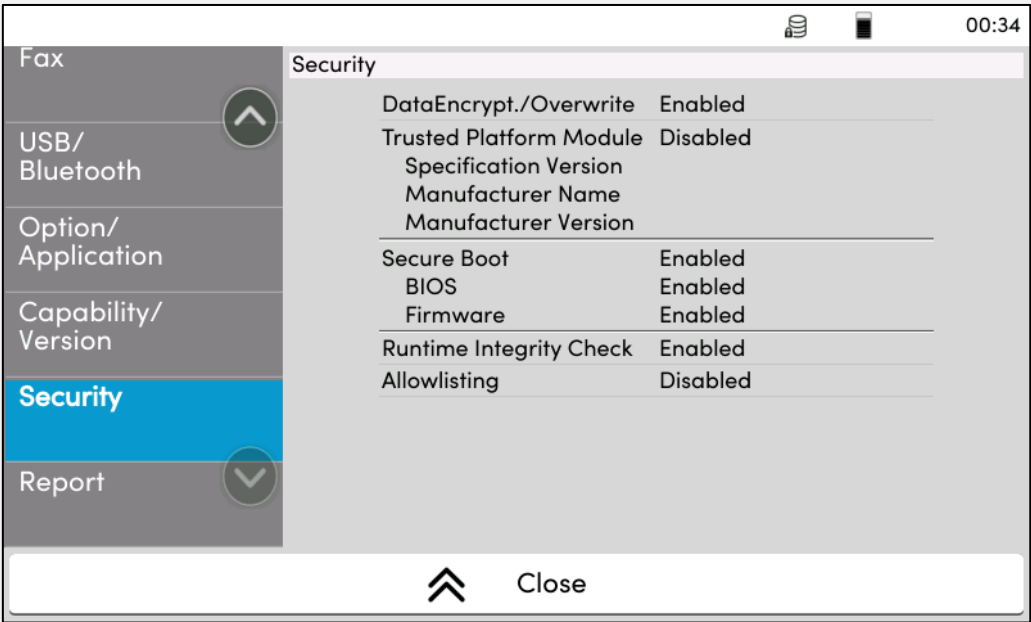
Users should always apply the latest security updates not only to the product but also PCs and servers that handle your valuable information assets to protect against attacks on these IoT devices used for your organization in the office.

Authenticity and Integrity of the Firmware

We strongly recommend Digitally-Signed Firmware, Secure Boot and Run Time Integrity Check (RTIC) be used for your Kyocera product in order to verify integrity and authenticity of the firmware. Particularly, RTIC can be expected to be more effective as a security measure against firmware alteration when used with the Secure Boot feature.

The firmware validity can be verified by applying a digitally-signed signature to the firmware. When the product starts up, the Secure Boot verifies the firmware is authenticated/legitimate using the digital signature. Even if a firmware is altered by a malicious person, it can never be executed. RTIC regularly verifies if the validity of the firmware is maintained during the operation of the product without altering the firmware deployed on RAM after the product starts up. Even if the firmware is maliciously re-written, it can be detected by confirming the hash value of the firmware uploaded to the product and the hash value created from the signature and a warning is issued as a system error.

With these malware protection settings, the firmware is protected from being altered, damaging the product, and using the product as stepping stone by a malicious third person.



The screens may vary depending on the product model.

Print Security

Walk-Up and Authentication Print Job

A print job should be held in the product from a PC until a user enters their appropriate password through the product operational panel.

If printed documents are left on the product tray for a long time or until the owner of the documents walks up to the product to pick them up, the documents may be read or taken by third parties and the document data leaks may be noticed later.

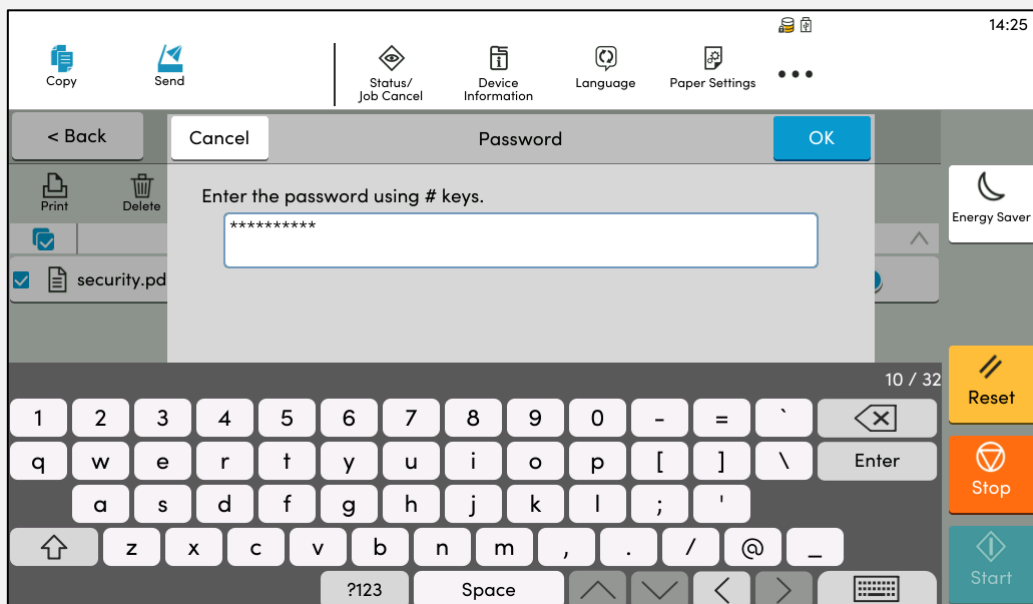
Kyocera offers Private Print feature in the print driver. A password can be set for a print job. The print job sent from a PC is held in the product, and then the appropriate password is required to be entered from the panel of the product when printing a document. This prevents the printed documents from being read or taken by third parties.

E.g.)

<From the Operational Panel of the product>

Configuring Print/Stored Job setting

1. Click **Job Box** > **Private Print**> **Stored Job**.
2. Enter a password in the password field.
3. Click **OK**.



The screens may vary depending on the product model.

Send Security

Send Security

The product offers various settings to confirm the send destination (i.e., address numbers) and subject on the screen before sending. This helps prevent sending to the wrong address and transmitting to the unintended destinations caused by unintentionally adding send destination to the group.

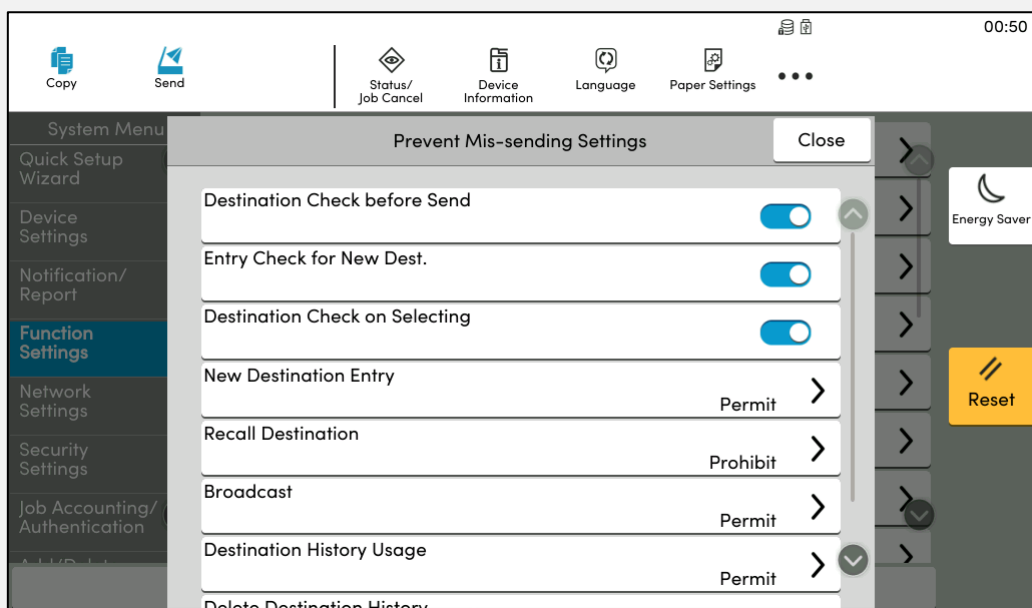
By configuring these correct settings, organizations can rest assured that documents can only be sent to the right owner and will not fall into the wrong hands. This effectively prevents unauthorized use or wrong sending caused by wrong number entry, even by mistakes or errors.

E.g.)

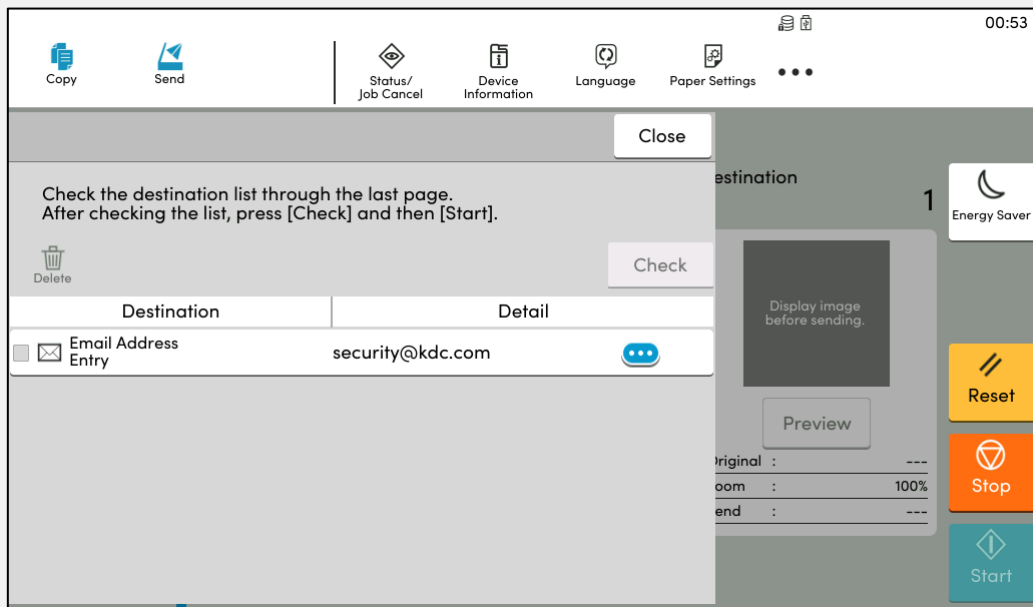
<From the Operational Panel of the product>

Configuring Send Security setting

1. Click **Function Settings** > **Send/Store** > **Prevent Miss-sending Settings**
2. Switch to **On**.



The screens may vary depending on the product model.



The screens may vary depending on the product model.

E.g.)

<From Web Connection>

Configuring Send Security setting

1. Click **Security Settings > Send Security**.
2. In **Dest. Check before Send**, **Entry Check for New Dest.**, and **Destination Check on Selecting**, switch to **On/Off**. In **New Destination Entry**, **New Destination Entry (FAX)**, **Recall Destination**, and **Broadcast**, switch to **Prohibit/Permit**.
3. Click **Submit**.

The screenshot displays the 'Command Center RX' web interface. The top header shows the device model 'ECOSYS MA6000ifx', host name 'KMCBF2B2', and location. A language dropdown is set to 'English'. The user is logged in as 'Admin'. The left sidebar contains a menu with options: Home, Device Information / Remote Operation, Job Status, Document Box, Address Book, Device Settings, Function Settings, Network Settings, Security Settings (highlighted), Device Security, Send Security, Network Security, Certificates, Management Settings, and Links. The main content area is titled 'Security Settings : Send Security' and contains the following settings:

Setting	Value
Dest. Check before Send :	On
Entry Check for New Dest. :	On
Destination Check on Selecting :	On
New Destination Entry :	Prohibit
Recall Destination :	Prohibit
Broadcast :	Prohibit

At the bottom right of the main content area, there are two buttons: 'Reset' and 'Submit'.

In the Decommission Phase

Stored Data Protection

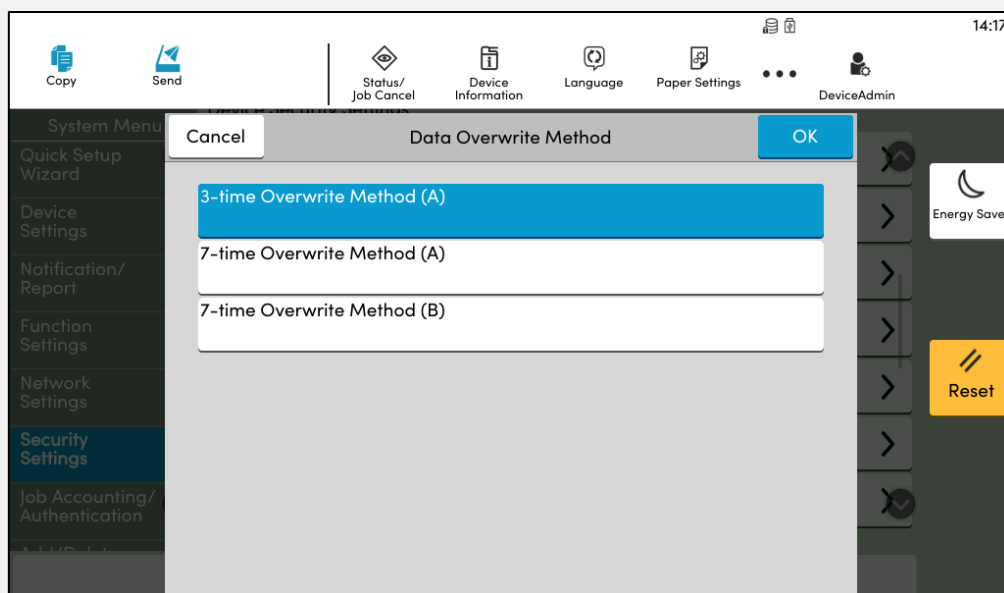
Data Sanitization

At the product's lease end or end of life, administrators set and execute sanitization features to completely sanitize the data retained inside the product or any residual data, using the Data Overwrite Methods such as DoD5200.22-M, DoD 5220.22-M ECE, BSI/VSITR, and/or the SSD Secure Erase (depending on the product model). Product settings can revert to factory default settings.

This prevents critical data/information restoration and data/information leaks to the outside.

Note

*The operational panel of the product shows an example of Data Overwrite Method: 3-time Overwrite Method (A) that conforms to **the U.S. Department of Defense, DoD 5220.22-M**, 7-time Overwrite Method (A) that conforms to **the U.S. Department of Defense, DoD 5220.22-M ECE**, and 7-time Overwrite Method (B) that conforms to **the German Federal Office for Information Security, BSI/VSITR**.*



The screens may vary depending on the product model.

E.g.)

<From Web Connection>

Configuring Reserve a Sanitization Time setting

1. Click **Security Settings > Device Security**.
2. Specify the required settings such as **Reserve a Sanitization Time** and **Device Use After Sanitization**.
3. Click **Submit**.

Command Center RX
Model : ECOSYS MA6000ifx
Host Name : KMCBF2B2
Location : English
Admin
Last Updated : 2024/10/25 00:19:03

Home
Device Information / Remote Operation
Job Status
Document Box
Address Book
Device Settings
Function Settings
Network Settings
Security Settings
Device Security
Send Security
Network Security
Certificates
Management Settings
Links

Security Settings : Device Security

Unusable Time Settings
Unusable Time : Off

Data Security Settings
Settings

Data Sanitization
Reserve a Sanitization Time : On
Year : 2024
Month : 10
Day : 25
Hour : 01
Device Use After Sanitization : ☒ Prohibit ☐ Permit

Firmware Update
Administrator Authentication on Firmware Update : On

Data Import/Export
Administrator Authentication on Data Import/Export : On

Secure Boot
Secure Boot : ☒ BIOS + Firmware ☐ BIOS

* : For these settings to take effect, click Submit and then restart the device and network.
Restart the device or network on this page: [Restart/Reset](#)

Reset Submit

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