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# Table of Contents

## Chapter 1  Basic Information

- KYOCERA Net Manager System Documentation ...................................................... 1-1
- What is KYOCERA Net Manager? ................................................................. 1-1

## Chapter 2  Installation

- System requirements .......................................................................................... 2-1
- Configuration ......................................................................................................... 2-1
- Server installation ................................................................................................ 2-2
- KNM components ............................................................................................... 2-3
- Main KNM communication ports ......................................................................... 2-3
- Installing the KX Driver and Net Manager component ......................................... 2-5
- Integrate Net Manager plugin into the KX Driver ............................................... 2-8
- Installing KYOCERA Net Manager ...................................................................... 2-9
- Skip installation of C++ runtime ........................................................................... 2-10

## Chapter 3  Web interface and initial startup tasks

- Web interface initialization ..................................................................................... 3-1
- Logging in as administrator .................................................................................... 3-1
- Home tab options .................................................................................................. 3-1
  - Home tab - Top bar ............................................................................................ 3-1
  - Home tab - Quick links ...................................................................................... 3-2
  - Home tab - Quick Setup Guide ......................................................................... 3-2

## Chapter 4  Quick Setup Guide

- Entering time zone ................................................................................................. 4-1
- Entering customer information .............................................................................. 4-1
- Adding and activating licenses ............................................................................. 4-2
- Support ................................................................................................................. 4-2
- Setting the administrator email ........................................................................... 4-2
- Configuring outgoing SMTP server ..................................................................... 4-3
- Printers, queues, users .......................................................................................... 4-3

## Chapter 5  Printers

- Add printers .......................................................................................................... 5-1
- Discovering printers .............................................................................................. 5-1
- Adding printers manually ..................................................................................... 5-3
- Activating printers ............................................................................................... 5-3
Chapter 6  Queues

Adding print queues .............................................................................................................. 6-1
Adding printers to queues ........................................................................................................ 6-4

Chapter 7  Users

Adding new users manually .................................................................................................. 7-1
Enabling user login via LDAP ............................................................................................... 7-2
Import users from LDAP ......................................................................................................... 7-2
Adding the LDAP source ........................................................................................................ 7-2
LDAP - General tab settings ................................................................................................. 7-3
LDAP - Users tab settings ....................................................................................................... 7-4
LDAP - Setting options on the Groups tab .......................................................................... 7-5
Importing users from .csv File .............................................................................................. 7-8
Manually created .csv file ...................................................................................................... 7-10
Importing users with a custom script .................................................................................... 7-12
Synchronizing users in the cloud licensing model .............................................................. 7-12
Running LDAP or .csv synchronization ................................................................................ 7-13
Scheduling user synchronization ........................................................................................... 7-13

Chapter 8  System licensing

System setup options .............................................................................................................. 8-1
Adding licenses ....................................................................................................................... 8-2
Licenses for system and terminals ......................................................................................... 8-2
Extending support licenses .................................................................................................... 8-2
Activating licenses with an internet connection .................................................................... 8-3
Activating licenses without an Internet connection .............................................................. 8-3
Virtual Machine High Availability (VMHA) license ............................................................ 8-4
Installing a new VMHA license .............................................................................................. 8-5
Adding a VMHA license to an existing system ...................................................................... 8-5

Chapter 9  Installing optional components

Smart Job Manager .................................................................................................................. 9-1
Installing Smart Job Manager ............................................................................................... 9-1
Installing Smart Job Manager - silent mode .......................................................................... 9-4
Changing Smart Job Manager settings .................................................................................. 9-5
Uninstalling Smart Job Manager ............................................................................................ 9-7
Smart Job Manager for MacOS ............................................................................................... 9-8
Smart Job Manager for Linux ................................................................................................ 9-9

Smart Print Services (SPS) ..................................................................................................... 9-11
Installing Smart Print Services (SPS) ................................................................................... 9-11
Installing Smart Print Services - silent mode ......................................................................... 9-16
Changing Smart Print Services settings ............................................................................... 9-19
Uninstalling Smart Print Services .......................................................................................... 9-22
Uninstalling Smart Print Services - silent mode ..................................................................... 9-23
Microsoft SQL server support - Master server ..................................................................... 9-23
Connecting to MS SQL ........................................................................................................... 9-24
Share user credits across site servers .................................................................................... 9-26
KYOCERA Net Manager Port ................................................................................................. 9-28
Installation using the wizard.................................................................................................. 9-29
Chapter 10 Upgrade and Uninstall

Upgrade...........................................................................................................................................10-1
Uninstall.........................................................................................................................................10-1
# 1 Basic Information

## KYOCERA Net Manager System Documentation

<table>
<thead>
<tr>
<th>KYOCERA Net Manager New Features Guide</th>
<th>Provides an overview of the new features available in KYOCERA Net Manager.</th>
</tr>
</thead>
<tbody>
<tr>
<td>KYOCERA Net Manager Administrators Guide</td>
<td>Describes administration and configuration features such as accounting, cloud licensing, remote terminal management, upgrade, server backup, uninstallation.</td>
</tr>
<tr>
<td>KYOCERA Net Manager Embedded Terminal Guide</td>
<td>Describes the installation and configuration of the KYOCERA Net Manager Embedded Terminal and use of Terminal Manager.</td>
</tr>
<tr>
<td>KYOCERA Net Manager Installation Guide</td>
<td>Provides instructions for installing software and initial configuration, searching printing devices, adding users, creating print queues, assigning terminals to printing devices, and setting up printer drivers.</td>
</tr>
<tr>
<td>KYOCERA Net Manager User Guide</td>
<td>Describes the KYOCERA Net Manager web interface and the KYOCERA Net Manager Embedded Terminal.</td>
</tr>
</tbody>
</table>

## What is KYOCERA Net Manager?

KYM is a server-based web application that manages your print devices and user policies to provide secure printing and copying and to provide accounting of print-related expenses. Efficient use of your printing resources is provided by the Print&Follow function which allows users to securely print to any printer managed by KYOCERA Net Manager.

KYOCERA Net Manager offers many advantages:

### Authentication

Access the devices in one step by PIN, ID card or user name/password or in a two-step authentication combination such as ID card and PIN

### Security

Secure printing, data encryption and the Print&Follow function ensure that your documents can only be accessed and printed by authorized people.
**Basic Information**

**Reporting**
KYOCERA Net Manager keeps detailed statistics about all aspects of printing and printers, scanning and copying, projects, accounting and users and groups.

**Personalized Features**
KYOCERA Net Manager allows IT administrators to show different functions and applications per user based on the user’s requirements.

**Easy Scan**
One click changes the destination of your scanned documents and their metadata. You may choose between your home folder, fax server, or email address.

**Mobile printing**
Print documents from your mobile device by sending the job to the KYOCERA Net Manager server or using the mobile app.
# 2 Installation

## System requirements

### Configuration

<table>
<thead>
<tr>
<th>Server / computer:</th>
<th>RAM 4 GB*</th>
<th>CPU Cores (2 GHz):</th>
</tr>
</thead>
<tbody>
<tr>
<td>computer:*</td>
<td></td>
<td>Cores (per server):</td>
</tr>
<tr>
<td>Without parsing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAM 4 GB*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Printers (per server)</td>
<td>Up to 100</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Up to 400</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Up to 600</td>
<td>8</td>
</tr>
</tbody>
</table>

For systems with a large number of direct queues, KYOCERA strongly recommends using SSD.

### With parsing

| RAM 4 GB* | Minimal requirements for an activated parser: 4 CPU cores (2 GHz) or more, depending on the size of the installation. |

### Smart Job Manager (SJM), Smart Print Services (SPS)*

A server with 100+ clients that uses Smart Job Manager or Smart Print Services requires 2+ CPU cores just for SJM or the SPS operations.

### Recommended No. of Users:

| Users: Up to 100,000. 30,000 to 60,000 per one synchronizing line, depending on the length and number of fields for synchronization. | Groups: Up to 40,000. There can be 10 tree levels (group in group in group). Each user can be in up to 100 groups. |

### Storage space:

| Application files: 300 MB | Log: 100 MB (14 days) | Accounting records: 6 GB (4 year history) | Print jobs: Depends on the amount of print. |

### Operating system:

Windows Server 2008 / 2008 R2 / 2012 / 2012 R2 / 2016 / Core, with latest updates

Windows 7/ 8/ 8.1/ 10 **, with latest updates. Supports both 32-bit and 64-bit OS.
Installation Guide

32-bit JAVA runtime version 8 or later.
Microsoft .NET Framework 4.5 Full Version or later.

<table>
<thead>
<tr>
<th>Web browser:</th>
<th>Google Chrome 63 and later (recommended).</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mozilla Firefox 57 and later (recommended).</td>
</tr>
<tr>
<td></td>
<td>Internet Explorer 11 and later.</td>
</tr>
<tr>
<td></td>
<td>Microsoft Edge 14 and later.</td>
</tr>
<tr>
<td></td>
<td>Safari 10 and later.</td>
</tr>
<tr>
<td></td>
<td>Older versions of web browsers will not work as required. For example, IE 8 does not support the drag-and-drop function.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MS SQL version for Master server:</th>
<th>MS SQL Server 2012 / 2014 / 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MS SQL Server 2012 / 2014 / 2016 Express versions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Port Monitor on client computer:</th>
<th>Windows 7 / 8 / 8.1 / 10</th>
</tr>
</thead>
</table>

Set up exceptions in your antivirus for KNM folders, processes and services to prevent performance issues.

*Recommended configuration may vary according to system load.

**KYOCERA recommends using a server OS.

Server installation

KNM can be installed for three different configurations:

• Stand-alone server
• Master server
• Site server (in configuration with a Master server)

KNM Server can use a Firebird database, which comes with the KNM Server version, or it can use an external SQL database. Databases can be used in the following configurations:

• Master servers can use either a Firebird database or an external SQL database
• Site servers can only use a Firebird database

The installer for the KNM MS SQL Master version can be requested from Kyocera support. To use an external SQL database, KNM MS SQL Master 6.0 or KNM MS SQL Master 7.0 must be used.

In the Master-Site configuration, when using the Firebird environment, the Site server KNM software version must not exceed the Master server KNM software version.

KNM supports installation on virtual machines. If you are installing on virtual machines, it is common to obtain a Virtual Machine High Availability (VMHA) license so MAC address changes do not affect KNM. See System Licensing for more details.
Installation

For more information, see the Microsoft SQL Server Support - Master Server section in this guide, or contact support.

**KNM components**

The complete KNM installation involves several supporting utilities and services, some of which support extended features.

**Basic**

**KNM server software**

This package is usually an executable file which installs the Apache server, PHP, and Firebird Database, depending on the version used.

If other third-party software is installed on the same system as the KNM server, a system collision may occur, causing a malfunction in one of the systems. Therefore Kyocera recommends that you install KNM on a dedicated server with a newly installed operating system.

**KX Driver**

KX Driver provides policy and accounting enforcement for jobs spooled through the computer.

**SQL Database**

An external SQL database can be installed to work with KNM MS SQL Master version.

**Additional features**

**Smart Job Manager (SJM)**

SJM is a utility that can be installed on the client computer for users to manage project accounting and to view credit.

**Smart Print Services (SPS)**

This service, also installed on the client computer, is needed for features such as secure printing, client spooling, and failover printing.

**Embedded Terminal**

Embedded Terminal software is installed on compatible printing devices allowing for a custom panel interface and user-specific functions.

**Port Monitor**

Port Monitor software allows for easy setup of Local Print Spooling functionality and offline redundancy.

**Main KNM communication ports**

KNM uses the following ports which should be left unallocated and enabled in the firewall:
<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCP Port 25</td>
<td>SMTP protocol uses this port for Scan Management. If not enabled, KNM does not receive scanned jobs.</td>
</tr>
<tr>
<td>TCP Port 515</td>
<td>LPR protocol for print job transmission to the KNM server. If not enabled, KNM does not receive jobs. If the print drivers are installed on the same hardware as KNM, it is not necessary to enable Port 515 in the firewall.</td>
</tr>
<tr>
<td>TCP Port 3050</td>
<td>Protocol for communication with the Firebird database server. If not enabled, KNM cannot connect to the database, and the system is down. This port is also important for central data replication from other KNM servers.</td>
</tr>
<tr>
<td>TCP Port 8080</td>
<td>HTTP protocol for an access to the web interface, communication with Embedded terminals, and job roaming among KNM servers. If not enabled, the KNM web interface cannot be displayed on other computers in the network, embedded terminals will not communicate properly, and the Job Roaming feature will not function.</td>
</tr>
<tr>
<td>TCP Port 8090</td>
<td>Performs the same function as Port 8080, but on this port, KNM runs in encrypted mode secured by certificate.</td>
</tr>
<tr>
<td>TCP Port 8083</td>
<td>HTTP protocol for communication with the external SQL database. If not enabled, communication with the database will be blocked.</td>
</tr>
<tr>
<td>TCP Port 8093</td>
<td>Performs the same function as Port 8083, but on this port, KNM runs in encrypted mode secured by certificate.</td>
</tr>
<tr>
<td>UDP Port 161</td>
<td>SNMP protocol serves for communication with printing devices. If not enabled, all printing devices in the KNM system are offline.</td>
</tr>
<tr>
<td>UDP Ports 11108</td>
<td>Used by terminal communication protocols. If not enabled, authorization of KNM terminals is disabled.</td>
</tr>
<tr>
<td>UDP Port 11112</td>
<td>Smart Job Manager communication protocol. Used for LPM.</td>
</tr>
<tr>
<td>ICMP Protocol</td>
<td>Must be allowed for proper communication with printing devices. If not allowed, device status remains Unreachable.</td>
</tr>
<tr>
<td>TCP Port 9100</td>
<td>Used by RAW protocol to send print jobs from KNM to printing devices.</td>
</tr>
<tr>
<td>TCP Port 631</td>
<td>Used by IPP protocol to send print jobs from KNM to printing devices.</td>
</tr>
</tbody>
</table>
Installation

<table>
<thead>
<tr>
<th>TCP Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>443</td>
<td>Used by IPPS protocol to send print jobs from KNM to printing devices.</td>
</tr>
<tr>
<td>10040</td>
<td>Used by MPP and MPPS protocols to send print jobs from KNM to printing devices.</td>
</tr>
</tbody>
</table>

Open the following ports to enable KYOCERA Net Manager features:

<table>
<thead>
<tr>
<th>TCP Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9090 - 9091</td>
<td>TCP ports 9090 and 9091 are necessary for using remote setup for KYOCERA Embedded Terminals.</td>
</tr>
<tr>
<td>9093 - 9099</td>
<td>TCP port 9094 is used for access to printing devices and cannot be changed.</td>
</tr>
<tr>
<td>9101</td>
<td>TCP port 9101 is used for the user session service.</td>
</tr>
<tr>
<td>631</td>
<td>Used by IPP protocol to send Mobile print jobs.</td>
</tr>
<tr>
<td>717</td>
<td>Used by IPPS protocol to send Mobile print jobs.</td>
</tr>
</tbody>
</table>

Some of these ports can be changed if there is a conflict with other applications.

When there is a communication port collision with other software you will see an error message: Windows socket error 10048.

Installing the KX Driver and Net Manager component

KYOCERA Net Manager uses the KX Driver for some of its features. For information about driver configuration, see the Administration Guide.

1. Double-click the Setup.exe file.
2. Click Yes at the warning screen.
3. Click Accept.
4. Review the Resource and Energy Savings information tabs, and click OK.
5. Select Custom Install.
6 Select the driver for your model in the Devices area and click the arrow to move it into the Products to Install list.
7 Click **Install**.

8 Click **Finish**.

9 Click **Maintenance** in the Product Library.

10 Click **Optional Printing Components**.

11 Click **Run**.

12 In the list of printers, select the driver you just installed and click **Next**.

13 Click the + symbol in front of the driver to expand the menu. Select **Net Manager**.

14 Select **Driver Integration with Net Manager** and click **Install**.

15 Click **Finish**.

- Only PCL jobs for KX v4 driver can be parsed
- XPS jobs are not supported
Integrate Net Manager plugin into the KX Driver

In order to use all of the features of the KYOCERA Net Manager server, the Net Manager plugin must be integrated with the KX Driver.

1. Run the KX Driver setup.exe installer. In the Product Library, click on Maintenance, select Net ManagerSupport, and click Run.

2. Select the devices that will have Net Manager integration and click Next.

3. Review your choices and click Install. After installation completes, click Close.

4. Open Windows Printer properties / Device Settings / Administrator.
There is now a Net Manager tab in Administrator Settings.

5 Select the Net Manager checkbox and click OK.

Installing KYOCERA Net Manager

See the System Requirements section for software prerequisites.

1 Double-click KNM_x.xx_setup.exe.
2 Choose the language to use during installation from the drop-down list and click OK.
3 Click Next.
4 Select I accept the agreement and click Next.
5 Use the default installation folder or browse to a new location. Click Next.
6 Click Install.
7 Accept the default Upgrade options or make changes. Click Next.
When the installation finishes, KNM Easy Config opens.

8 Click **Continue the setup in the KNM web interface** in KNM Easy Config.

KYOCERA Net Manager opens in a web browser.

9 Close KNM Easy Config.

10 Click **Finish** on the Net Manager Setup Wizard screen with the **Yes, restart the computer now** option selected.

   ![This screen may be hidden behind Easy Config](image)

Your system will restart.

11 Log on to KYOCERA Net Manager with

   - user name - *admin* – be sure to add the asterisk (*)
   - password - 1234

### Skip installation of C++ runtime

When installing KNM from the command line, you can skip installing C++ by using the “-novcredist” option.

For example:

```
C:/Users/Desktop>KNM_5-10-0-180_setup.exe -novcredist
```
3 Web interface and initial startup tasks

Web interface initialization

You can start the KNM web interface on the server or by logging in remotely.

On the server
Open the Windows Start menu and select KNM Easy Config. When it opens, click the link for **KNM Web Interface**.

Remotely
Type the IP address or hostname into your browser:
http://[KNM server]:8080.
For "KNM server" use the IP address or hostname of the server on which KNM is installed.

Logging in as administrator

1. Change or accept the default language for the web interface.
2. Type the Administrator login name: *admin.
3. Enter the Administrator PIN you created in KNM Easy Config. The default PIN is 1234.

Remember to change the default PIN. It can be changed in KNM Easy Config.

Home tab options

The first time you log in to KNM, the Home tab shows:

- Top Bar
- System status
- Quick links
- Quick Setup Guide
- License

Home tab - Top bar

The bar near the top of the Home Tab has three options:
Refresh
Refreshe the screen.

Generate data for support
Creates a data file "KNM-helpdesk_[date]_[time].zip" for KYOCERA support.

Log out
Logs you out of KNM.

Home tab - Quick links

KNM provides "Quick links" on the Home tab. These links go to detailed configuration screens.

Jobs
Review and manage print jobs in various states.

Printers
Manage, add, delete printers, printer groups, and printer queues.

Users
Manage, add and delete users, user groups, user queues, and user delegates.

Reports
Monitor printing devices' workload, printing volume of individual users or groups with over 80 predefined reports.

Settings
Open the Settings menu for granular configuration of the KNM system.

Log
Display events in KNM, which lets you monitor KNM operations and workload and quickly identify the cause of a malfunction.

Home tab - Quick Setup Guide

Guides you through the initial setup tasks for KNM. For more information, see the Quick Setup Guide chapter.
4 Quick Setup Guide

The Quick Setup Guide takes you through the steps needed to set up KNM for the first time. Further configuration and modification is described in the Administration Guide.

<table>
<thead>
<tr>
<th>Quick Setup Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Time zone – DONE</strong></td>
</tr>
<tr>
<td>Edit</td>
</tr>
<tr>
<td><strong>Customer Information</strong></td>
</tr>
<tr>
<td>Enter contact data</td>
</tr>
<tr>
<td><strong>License</strong></td>
</tr>
<tr>
<td>Waiting for previous steps</td>
</tr>
<tr>
<td><strong>Support</strong></td>
</tr>
<tr>
<td>Waiting for previous steps</td>
</tr>
<tr>
<td><strong>Administrator email</strong></td>
</tr>
<tr>
<td>KYOCERA Net Manager sends important system notifications to this email.</td>
</tr>
<tr>
<td>Enter the administrator’s email</td>
</tr>
<tr>
<td><strong>Outgoing SMTP Server</strong></td>
</tr>
<tr>
<td>Configure the outgoing SMTP server</td>
</tr>
<tr>
<td><strong>Printers</strong></td>
</tr>
<tr>
<td>Discover printers</td>
</tr>
<tr>
<td><strong>Queues</strong></td>
</tr>
<tr>
<td>Add printer queues</td>
</tr>
<tr>
<td><strong>Users</strong></td>
</tr>
<tr>
<td>Add users manually</td>
</tr>
</tbody>
</table>

**Entering time zone**

The time zone on the KNM server must match the time zone setting in KNM. If they do not match, the system generates an error in the system log. To change the time zone, click **Edit** and make changes on the General tab.

**Entering customer information**

1 In the Quick Setup Guide, click **Edit** under Customer Information to enter contact information.
2 Enter your company name.
3 Enter your address.
4 Select your Country from the drop-down list.
5 Enter a phone number (optional).
6 Click Save.

Adding and activating licenses
1 Under License, click Add license.
2 Type or copy and paste your license keys into the License text box.
   If you need a trial license, click Get trial license and follow the prompts.
3 Click OK.
   Support licenses must be assigned to a particular device license. Do not add support licenses through the Settings > License screen.
4 Select a license and click Activate or Activate all for all added licenses.
   You can manually activate a license. An activation key is needed for this action.

Once the licenses have been entered, a new license information screen is added to the Home tab.

Support
When you have entered your licenses, the Support area reflects the addition of the support licenses that go with them, showing the support expiration dates for each license. To extend maintenance, go to Settings > License, and click Manage support in the Support column.

Setting the administrator email
1 Go to Settings > General.
2 In the Administrator email field, enter the email address to use for system notifications.
3 When done, click Save.
Configuring outgoing SMTP server

Configure a mail server to send reports to email, send error messages to users, send generated PINs to users, and forward scanned jobs in Scan Management.

1. Click **Configure the outgoing SMTP server** in the Quick Setup Guide. The Settings: Network tab opens.
2. In the Outgoing SMTP server area, enter the IP address or server hostname into the Server text box.
3. If the mail server listens on a port other than 25, change Port to that value.
4. If used, select the **SSL** or **STARTTLS** security protocol, or leave as **None**.
5. Select **Validate certificate**, if required.
6. [Optional] Enter User and Password if the credentials are required by the SMTP server.
7. Enter an address in **Sender email** to display as the sender for PIN, alert and report emails. The default is **KNM@KNM.local**.

   ![This address appears as the sender for emails to users from KNM.](image)

8. Check the availability of the mail server by clicking the **Test** button.

9. Click **Save**.

10. Close the **Settings: Network** tab.

Printers, queues, users

See the following chapters for details on Quick Setup for Printers, Queues, and Users.
5 Printers

The Printers section of the Quick Setup Guide gives you options for adding printers to KNM and activating them.

Add printers

From the Quick Setup Guide, Printers section, there are two ways to add printers to KNM:

- Discover printers
- Add printers manually

Discovering printers

The first time you use the KNM Quick Setup Guide to add printers, both discovery and manual options are available under the Printers section.

1. Click Discover printers.
   The Settings: Printer Discovery tab opens.

2. Click Add discovery.

3. Enter an IP address range.

   For first time configuration, accept the other defaults. You can enter new printer discovery options at any time.

4. Click Save.
5 Click the row to select the IP range you just created and click Run.
KNM displays the list of discovered printers.

6 To add all discovered printers, click Add to KYOCERA Net Viewer and click Add all.

7 To add selected printers, select one or more printers, click Add to KYOCERA Net Viewer, and click Add selected.

8 Close the Settings: Printer Discovery tab and go to Activating Printers.

For a complete description of printer discovery options, see the Administration Guide.

Adding printers manually

The first time you use the KNM Quick Setup Guide to add printers, both discovery and manual options are available under the Printers section.

1 Click Add printers manually.
   The Printers tab opens.

2 Click New printer, then New printer (insert).

3 Enter a Name and IP address/Hostname.

4 Click Save.

5 Close the Printers tab.

Activating printers

When you activate a printer, its MAC address is associated with your KNM license. You may only activate the number of printing devices permitted by your license. You can also add printers through Printer Discovery. See the Administration Guide for more information.

1 Go to Printers in the Quick Setup Guide.

2 Click Activate to activate all printers that have been added.
You cannot add and activate the same device twice. KNM registers the MAC address of each device. If the device has been deleted, the device’s MAC address remains in the KNM database. To restore a deleted device, undelete it and activate it again. In the event KNM detects the same MAC address during activation, KNM prohibits activating the device.
6 Queues

In the Queues section of the Quick Setup Guide you can create print queues that allow users print to devices managed by KNM.

There are four types of print queues:

Direct
Used to print directly to a single designated printing device without requiring card or chip authorization.

Print&Follow
Assigned to several printing devices that are equipped with KNM terminals. Users can log in at any of the printer devices to retrieve their print job.

Tandem
Assigned to several printing devices to distribute the workload among them. Print jobs are sent to the active device with the lowest number of printed pages in the tandem queue.

Delegated printing
Has a delegated user who can release and print jobs belonging to other users.

By default, KNM creates three Print&Follow queues on installation:

E-mail_Web
Used for jobs sent directly from email or from the web interface.

Job roaming
Used for sharing jobs among site servers.

Replicated jobs
Used by the Master server to get jobs from the Site servers.

Adding print queues
For this example, create a new Direct queue and add a printer to it.
1 Click **Add printer queues** in the Queues area of the Quick Setup Guide.

2 Click **New Queue**.

3 Enter a name for the queue, select the type (Direct for this example, the default type is Print&Follow) and use the defaults in the other fields.
4 Click **Save**.
   The new queue appears on the queue list.

**Adding printers to queues**

1. Click the **Printers** tab on the queue you just created.
2. Click **+Add**.
3. Click the down arrow on the Search drop-down list, select a printer, and click **OK** to add it to the queue.

   > A Direct queue can only have one printer assigned to it.

4. Click the red X on the queue properties screen to close the screen.

The Queues tab shows the three default Print&Follow queues along with the new Direct queue and printer.

For more information on Queues, see the Administration Guide.
7 Users

The Users section of the Quick Setup Guide gives you two ways to add users to KNM:
- Add users manually
- Import users from LDAP (Lightweight Directory Access Protocol), a .csv file, or a custom script

Adding new users manually

1. Go to KYOCERA > Users.
2. Click New User.
   Tabs on the user screen are:
   - General
     User contact information.
   - Groups
     To assign a user to existing groups.
   - Queues
     Queues for this user.
   - Delegates
     Add delegates that can print the user's jobs.
3. Fill in the General tab fields.
   Required fields are User name and Full name.
4. Assign one or more Cards to the user, and select Persistent or Temporary for each new card.
5. Add or let KNM generate a PIN. Without a PIN or password, the user will not be able to log on to KNM through a web interface or Embedded Terminal. A user with an ID card, but without a PIN or password, will be able to swipe the card to log in.
   - Create or generate a PIN on the user properties screen. Create a password by right-clicking an existing User name on the Users tab.
6. Click Save.
   - The User name, Card, PIN and Personal number fields must be unique. If there is duplication, KNM displays an error message and the user properties are not saved.
Enabling user login via LDAP

Users can authenticate against the LDAP or Active Directory server.

1. If LDAP is already configured (for user import/synchronization), and **Use authentication server** was selected when setting up the import, imported users will have LDAP authentication enabled by default.

2. For manually created users, select **Use authentication server** and select the Authentication server from the drop-down list.

3. If LDAP is not already configured, see Import Users from LDAP.

> If LDAP authentication is enabled on a user account, the user cannot change their password from the KNM web interface.

Import users from LDAP

The most common way to add users to the KNM database is to import them through Active Directory. Both the user properties and the tree structure of user groups can be imported according to organizational units (OU) in Active Directory.

Adding the LDAP source

You can set up an LDAP server (or servers) for user import and synchronization.

1. Click **Import users** in the Quick Setup Guide/Users section on the Home tab. (Or go to **Settings > User Synchronization**.)

2. Click **Add sync source** and select **Add LDAP source** from the drop-down list.

3. In **Connection parameters**, click the drop-down list by LDAP Server.
4 If there are no servers in the list, click **Add new**.

5 Provide the following:

- Domain
- Server type (Active Directory, Novell, Open LDAP, or Lotus Domino)
- Security (None, SSL, or START TLS)
- Server IP address or hostname and port

Microsoft Azure Active Directory synchronization is also supported. To synchronize with Azure Active Directory, it must be enabled and configured and the feature must be enabled via config files. Please contact support for more information.

6 Click **Save**. (Click **Test** to check the connection.)

The LDAP settings and information in this manual are based on Active Directory, although most of these settings are similar for all supported LDAP servers, including Novell, OpenLDAP and Lotus Domino.

**LDAP - General tab settings**

When configuring a new LDAP source or editing an existing one, apply the following settings:

1 Under **Connection parameters**, enter the LDAP server domain, and the User and Password for logging in to the LDAP server.

2 To protect against an LDAP malfunction select **Enabled** to export to a .csv file after a successful import. You can use this .csv file as a synchronization source in the future.

3 Click **Save**.
LDAP - Users tab settings

Enter LDAP import parameters from the Users tab.

1. Click the Users tab.
2. Click Add to add a new Base DN.
3. Drag a folder containing the users you want from the LDAP tree into the Base DN field.
4. Click Add again to add an additional Base DN.

You can map LDAP user attributes to KNM User Properties for inclusion when importing and synchronizing. KNM automatically finds and assigns the user's SAM account name to User name, cn to Full name, and mail to Email. This mapping applies to Active Directory and Open LDAP only. If any of the Properties are not used in your KNM installation, leave the field blank.
5 To add specific user attributes, drag and drop or copy an item listed under Attribute on the right into the appropriate Properties field.

6 Select or clear Options as needed, and click **Save**.

```
<table>
<thead>
<tr>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Deactivate missing users</td>
</tr>
<tr>
<td>☑ Add new users</td>
</tr>
<tr>
<td>☐ Convert user name to lowercase</td>
</tr>
<tr>
<td>☑ Use authentication server</td>
</tr>
<tr>
<td>☐ Pair by the personal number</td>
</tr>
<tr>
<td>☐ Ignore synchronization source</td>
</tr>
<tr>
<td>☐ Append the domain name to the username (<a href="mailto:username@domain.local">username@domain.local</a>)</td>
</tr>
</tbody>
</table>
```

7 [Option] Create filters.
You can filter user import by specifying attribute values. Add conditions in the form: Attribute=Value.

Use the * symbol to search for substrings in the values. The symbol can be appended on both sides. For example, if you add a cn="in* condition, only users whose common name attribute contains "in" are accepted.

Add one condition per row. Users are imported if they satisfy at least one condition.

**LDAP - Setting options on the Groups tab**

Configure how groups of users are imported from LDAP on the Groups tab. Options are described in the table below.
### Users

#### 7-6 Installation Guide

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not change default group</td>
<td>Do not change the default group of the user during synchronization.</td>
</tr>
</tbody>
</table>

![LDAP synchronization interface](image)
<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Import groups under this group</td>
<td>Select an existing KNM group and import the LDAP groups into that group.</td>
</tr>
<tr>
<td>Groups stored in user’s attribute</td>
<td></td>
</tr>
<tr>
<td>Attribute</td>
<td>If there is a special attribute for defining groups in LDAP, insert it here.</td>
</tr>
<tr>
<td>Make default</td>
<td>Make this the default group of the imported users.</td>
</tr>
<tr>
<td>Groups stored in user’s DN</td>
<td></td>
</tr>
<tr>
<td>OU component index</td>
<td>This option adds the group according to the component of the users DN (distinguished name) in the database server. To use it, define the index of the component. For example, &quot;Claude Monet&quot; has the following DN: CN=Claude Monet,OU=Painters,OU=famous_people, OU=KNM_import_test,DC=testAD,DC=local The user's name (CN=Claude Monet) has index 1, OU=Painters has index 2, OU=famous_people is #3, and OU=KNM_import_test is #4. Enter 2 in OU component index to use Painters as the group for Claude Monet, and whatever is defined in position #2 for other user's groups. Make default</td>
</tr>
<tr>
<td>Tree group stored in user’s DN</td>
<td>Import the entire tree structure of groups. Select which part of the structure will be imported by stripping DN components from the left and the right of the DN. You must strip one component from each side, using the two counters: Components to strip from the left and Components to strip from the right. Note that right is unavailable until you have entered a number in left. Using the sample DN: CN=Claude Monet,OU=Painters,OU=famous_people, OU=KNM_import_test,DC=testAD,DC=local There are six components. If you strip one from the left and two from the right, you import the following groups' structure: OU=Painters,OU=famous_people,OU=KNM_import_test Make default</td>
</tr>
</tbody>
</table>
Group stored in user’s memberOf attribute

<table>
<thead>
<tr>
<th>Group base DN</th>
<th>Define the base distinguished name (DN) where the groups are stored. The Group base DN does not have to be in the same OU as the users’ base domain.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Import empty groups</td>
<td>With this option checked, groups are imported even if there are no users with them in their memberOf attribute.</td>
</tr>
<tr>
<td>Import tree of groups</td>
<td>With this option checked, the entire tree structure is imported. If the option is cleared, all groups are added separately – not as a part of a tree structure.</td>
</tr>
</tbody>
</table>

**Importing users from .csv File**

You can import users from a .csv file that is either obtained from a database export or prepared manually.

1. Go to **Settings: User Synchronization** or click **Import users** in the Quick Setup Guide/Users section on the Home tab.
2. Select **Add CSV Source** from the **+ Add sync source** drop-down list.
3. In the CSV Synchronization panel, enter the requested information as follows:

<table>
<thead>
<tr>
<th>Import Setup Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enabled</td>
<td>Synchronization is on or off</td>
</tr>
<tr>
<td>CSV file</td>
<td>Location of the .csv file</td>
</tr>
<tr>
<td>Encoding</td>
<td>Character encoding</td>
</tr>
<tr>
<td>Column delimiter in .csv</td>
<td>Data delimiter used in this file. The default is defined in the Column delimiter in .csv field at KYOCERA &gt; Settings &gt; General. Choices are: Default, comma (,), semi-colon (‘), or Tab.</td>
</tr>
<tr>
<td>Skip header line</td>
<td>Skip the first row in the file.</td>
</tr>
<tr>
<td>Import groups under this group</td>
<td>Import all groups under one main group.</td>
</tr>
<tr>
<td>Synchronization source</td>
<td>Defaults to .csv</td>
</tr>
<tr>
<td>Ignore synchronization source</td>
<td>This check box only has an effect on the synchronization operation if <strong>Deactivate missing users</strong> is checked.</td>
</tr>
<tr>
<td>Import Setup Options</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>If selected, deletes all users not found in the current synchronization source, regardless of the source type. If cleared, only deletes users not found in the current source that have the same synchronization source type. (See User detail on the General tab, Synchronization source).</td>
</tr>
<tr>
<td></td>
<td><strong>If used incorrectly, you can accidentally delete or deactivate active users.</strong></td>
</tr>
<tr>
<td>Use authentication server</td>
<td>If you select this option, an LDAP or RADIUS server is used to authenticate the imported users. Enter the domain in the Authentication Server field.</td>
</tr>
<tr>
<td>Authentication server</td>
<td>Select the LDAP or Radius domain for user authentication.</td>
</tr>
<tr>
<td>Deactivate missing users</td>
<td>Deactivate users that were imported from this source file earlier, but are no longer in the present version. Users imported from a different source will remain, unless Ignore synchronization source is selected.</td>
</tr>
<tr>
<td>Add new users</td>
<td>Add new users from the current synchronization source.</td>
</tr>
<tr>
<td>Pair users by personal number</td>
<td>Pairs multiple accounts that have the same personal number.</td>
</tr>
<tr>
<td>Convert user name to lowercase</td>
<td>Convert imported user names to lowercase</td>
</tr>
<tr>
<td>Cards, PIN, Groups, and Delegates</td>
<td>In each of the three drop-down lists, you can select from these synchronization options for the corresponding parameter (Cards, PIN, Groups, and Delegates):</td>
</tr>
<tr>
<td></td>
<td><strong>Do not synchronize</strong> Value of the corresponding parameter in KNM is not changed.</td>
</tr>
<tr>
<td>Import Setup Options</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>Full synchronization</strong></td>
<td>Value of the corresponding parameter in KNM is always replaced by the value in the .csv file. If the value in the source file is empty, the value in KNM is erased.</td>
</tr>
<tr>
<td><strong>Synchronize if not empty</strong></td>
<td>If the corresponding field in the .csv file is not empty, the parameter value in KNM is replaced by the value in the .csv file. Otherwise, the parameter value remains unchanged. This is the default setting.</td>
</tr>
<tr>
<td><strong>Add new</strong></td>
<td>If the parameter is already set in KNM, it is not replaced. Only new values are added.</td>
</tr>
</tbody>
</table>

4 Click **Save**.

**Manually created .csv file**

A manually created .csv file must contain the parameters in the table below. If you don't know what the data is for a parameter, enter one of the following two text patterns: ,, or ;;

For example, in this .csv file opened in a text editor, the two commas after the user email address show there is no data for CARDS for the users.

<p>| FULLNAME,USERNAME_ALIAS,EMAIL,CARDS,GROUPS,CODE,SCANSTORAGE,PINS,MANAGED_GROUPS,AUTHSERVER,PHONE,LANG,PWD |
| Andy User, AUser, <a href="mailto:auser@mail.com">auser@mail.com</a>,,,TestGroup2,,,,DA41BCEFF97B1CF96078FFB249B3D66E,,,,en-us, 66f938ba185e2a9ced66bb3899c19d1998 |
| Barry User, BUser, <a href="mailto:buser@mail.com">buser@mail.com</a>,,,TestGroup2,,,,F9D900B378F3389D07FD328278715788,,,,en-us,c53268283a54c6cb8bb9eaaa8b7b69ee7 |
| Candy User, CUser, <a href="mailto:buser@mail.com">buser@mail.com</a>,,,TestGroup2,,,,C48BA993D5C3ABE0380F91738FE2A34,,,,en-us, 0a1a383a35f30c620ba7ee83ed9ba9ac |</p>
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FULLNAME</td>
<td>The name of the user. For example, <strong>John Doe</strong>.</td>
</tr>
<tr>
<td>USERNAME_ALIASES</td>
<td>Login of the user and of any aliases. Username_alises should be the same as the user's domain login name, for example, <strong>doe</strong>. When using aliases, separate them with a comma. For example, <strong>doe,director</strong>.</td>
</tr>
<tr>
<td>EMAIL</td>
<td>Email of the user, for example, <strong><a href="mailto:jdoe@test.com">jdoe@test.com</a></strong>.</td>
</tr>
<tr>
<td>CARDS</td>
<td>Sets the authentication card of the user. Enter the number as it is read by the card reader, for example, <strong>7E9700C9</strong>.</td>
</tr>
<tr>
<td>GROUPS</td>
<td>You can import an entire branch of the group's tree structure. The groups on the imported branch have to be separated by vertical bars.</td>
</tr>
<tr>
<td></td>
<td>If you want to import multiple groups (or groups tree branches), separate them by commas.</td>
</tr>
<tr>
<td></td>
<td>For example, if you add two branches separated by a comma: &quot;Activities</td>
</tr>
<tr>
<td></td>
<td>Commas and vertical bars cannot be used in group names as they are used as group delimiters.</td>
</tr>
<tr>
<td>CODE</td>
<td>Defines the personal number of the user. This parameter is useful when using multiple sync sources. For example, <strong>1250</strong>.</td>
</tr>
<tr>
<td>SCANSTORAGE</td>
<td>Specifies the shared folder or email for the Scan Management function of KNM. For example, <strong>\nb128\scan</strong>.</td>
</tr>
<tr>
<td></td>
<td>Available only in Net Manager Pro.</td>
</tr>
<tr>
<td>PINS</td>
<td>Generates PINs in KNM so you do not have to manually add them to the .csv file. The PINs should be hashed MD5. For example, <strong>14BFA6BB14875E4</strong>.</td>
</tr>
</tbody>
</table>
### Parameters and Description

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANAGED_GROUPS</td>
<td>You can make the user the manager of a particular group by adding the group or path to the group here in the way in which you would import the group. If you want the user to be a manager of a child group, enter an entire branch ending with this group. For example, enter the branch Activities</td>
</tr>
<tr>
<td>AUTHSERVER</td>
<td>Defines the domain for user authentication, e.g., netmanager.test.com.</td>
</tr>
<tr>
<td>PHONE</td>
<td>The telephone number of the user. For example, 737852456.</td>
</tr>
<tr>
<td>LANG</td>
<td>The default language for the user. For example, en.</td>
</tr>
<tr>
<td>PWD</td>
<td>To authenticate the user against LDAP, insert parameter ldapAuth. If you do not want to authenticate the user against LDAP, leave this parameter undefined.</td>
</tr>
</tbody>
</table>

### Importing users with a custom script

Synchronization from a custom script is used only in very specific cases. For information about this option, contact KNM support.

### Synchronizing users in the cloud licensing model

When you setup a Master server and Site server, you can choose to enable User synchronization with the Master server. Once set, all user creation and management is done on the Master server. The Site servers must be synchronized with the Master server, so that all user settings are identical. Once enabled, other synchronization sources are disabled. For more setup and configuration information, see the Server Type and Cloud section in the KNM Administration Guide.
Running LDAP or .csv synchronization

After the import source is configured, you can run synchronization immediately or configure a scheduled task to run it later.

1 Go to Settings > User Synchronization.
2 Enable one or more synchronization sources.
3 Click Synchronize now.

Synchronization can also be scheduled using Task Scheduler.

Scheduling user synchronization

You do not need to run synchronization manually every time the Master server database changes. With the built-in task scheduler, you can schedule synchronization.

1 Go to Settings > Task Scheduler.
2 Select the **User Synchronization** task.

3 Click **Edit**.

   You can also enable or disable the **User Synchronization** task from the **Actions** menu.

4 Create the schedule.

   **Repetition**
   
   Choose Minute, Daily, Weekly, Monthly, or Quarterly.

   **Every N-th** ...
   
   *This selection changes based on the repetition type selected.*

   **Hours of run**
   
   Enter the time of day for the task.

5 Select recipients for notifications. You can notify any number of users or groups. You can also type an email address.

6 Select **Only in case of an error** to limit notifications.

7 Click **Save**.
8 System licensing

System setup options

KNM can be set up as either a standalone server or as a Master or Site server using the Cloud licensing model.

Standalone server

There is only one KNM server. A standalone server does not interact with other KNM servers. All licenses are managed by the standalone server and Cloud functionality is not supported.

Cloud licensing model

Licenses are stored and managed by the Master server and distributed to the Site servers

Master server

Assigns and administers licenses for Site servers

Site servers

Connects to the Master server to obtain licenses
Adding licenses

The system allows an unlimited number of printing devices on a server that has 40 licenses. The licenses can be downloaded to a site server or added to a standalone server.

Licenses for system and terminals

Add licenses to the system via the Quick Setup Guide on the home screen. Licenses can also be managed in the web interface. To manage your licenses, open Settings > License. If you are using a Virtual Machine, you must add the VMHA license before adding the Net Manager system and Embedded Terminal licenses.

To add new licenses, click Add license and type or copy and paste your license numbers. Add each license key on a separate line.

Before activating your license, complete your customer information.

Licenses are associated with a hardware code generated by the system according to your server hardware components. Therefore, the licenses cannot be used on another physical server without reactivation.

If you are installing a new server, contact your dealer or sales company to reactivate your KNM license. For systems with any virtual servers, a VMHA license must be used.

Add licenses for Embedded terminals the same way as device licenses.

Extending support licenses

A twelve month support license is included with every new license. The support license for printing devices or Embedded Terminal can be extended. When extending a support license, the new period starts after the last day of the current support license.

To extend support:

1. Go to Settings > License.
2. Click **Manage support** in the Support column for the selected license.

![System licensing table]

<table>
<thead>
<tr>
<th>License key</th>
<th>Count</th>
<th>Status</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000000000</td>
<td>40</td>
<td>OK</td>
<td>06/29/2019</td>
</tr>
</tbody>
</table>

3. Click **Add support license**.

4. Type or copy and paste the license into the Support license text box and select the type of activation.

5. If you select **Activate manually**, type in the Activation key and click **OK**.

The number of printing devices supported by the main license must correspond with the number of printing devices on the support license.

**Activating licenses with an internet connection**

This option requires an internet connection. The licenses are activated by the KYOCERA Net Manager licensing server.

To activate licenses, click **Activate** or **Activate all**.

**Activating licenses without an Internet connection**

If an internet connection to the server is not available, you must manually activate the licenses, which requires an activation key. To obtain this key:

1. Open the Home tab in KNM.
2. Click **Generate data for support** to generate the Support .zip file.
3. Contact KNM support with the .zip file to get activation codes.
4. After you receive your activation codes, click the license, then click **Activate manually** and type the license code.

You must perform this step for each license.
Some additional information about KNM licenses:

- You can add multiple licenses with **Add license**.
- You can delete and activate licenses from the **Settings > License** screen.
- The number of authorized printing devices equals the combined number of licenses.
  - Example: 10+1+1 licenses=12 printing devices
- If multiple license types are combined, only the features of the lowest edition license are available.
  - Example: If you have 20 licenses for Net Manager and 10 licenses for Net Manager Pro, you can use 30 licenses as Net Manager, but Net Manager Pro features will not be available.
- You may activate only the number of printing devices allowed by your licenses.

**Virtual Machine High Availability (VMHA) license**

KNM works on a virtual machine with high availability (the virtual server migrating among different hardware). When you are using a server farm where the virtual server floats between different physical hardware servers (meaning that the HW code is
changing), a special VMHA license is required. A VMHA license is not required for a basic system on a virtual server.

VMHA license activation requires a slightly different procedure than the activation procedure for other licenses.

**Installing a new VMHA license**

For a new installation, the VMHA license must be set up before adding the Net Manager system and Embedded Terminal licenses.

1. Go to **KYOCERA > Settings > Licenses** and click **Add license** or click **Add license** on the Home screen under License.
2. Type or copy and paste your VMHA license number.
3. Click **Add license**.
4. Click **Activate**.

5. Click the switch next to Virtual machine high availability (in the last section of the License screen) to turn it on.

After activating the VMHA function, add the system and terminal licenses.

**Adding a VMHA license to an existing system**

If you have already added and activated licenses in KNM, you can still add VMHA licenses, but you have to first delete the existing licenses. Follow these steps:

1. Copy and save all license keys from your existing system. You can select, copy and paste each key into a text file for future use.
2 Select all licenses and click **Delete**.

3 Follow the steps for Installing a new VMHA license.
9 Installing optional components

Smart Job Manager

Previously known as Easy Job Manager, Smart Job Manager (SJM) can be installed on the client computer for users to manage their jobs and view credit.

Installing Smart Job Manager

1 Double-click the Smart Job Manager-KNM installation package.

2 You can change the default installation location. Agree to the License terms and conditions. Click Next.

3 On the next screen, create Desktop and Startup folder icons. Select one or both. Click Next.

4 Enter the Server IP address or hostname and the Server Port for KNM. The port for HTTP is 8080 or 8090 for HTTPS.

5 If you want to create a secured link between the server and browser, select SSL. An SSL Certificate needs to be created.
a) Go to **Settings > Network > Communication Security**.
b) Click **Enable only secure connection** to turn it on and generate a certificate.

6 Copy the SJM Client ID:
   a) In KNM, go to **Settings > External Systems**.
   b) Click Show information on the Smart Job Manager line, then select and copy the Client ID.

![External System](image)

7 Paste the Client ID into the KNM Smart Job Manager wizard.

8 Select an Authentication method and complete any additional settings.
   Smart Job Manager supports three authentication methods:
   
   **Logged on user**
   
   This is the current user logged into the operating system.
   
   **Login**
   
   User can log in via PIN, Username and Password, or ID card.
   
   **User List**
   
   Select from a list of KNM users.
9 Click Install.

10 After installation finishes, click Run to start SJM.
Installing Smart Job Manager - silent mode

An MSI package is supplied for silent installation of Smart Job Manager.

The installation path cannot be changed for silent installation.

Supported parameters for silent installation:

SERVERADDRESS
  KNM server IP address or hostname

SERVERPORT
  KNM server port. Only numbers are allowed. The port for HTTP is 8080 or 8090 for HTTPS.

SERVERSSL
  SSL Connection
  • 0: Disabled
  • 1: Enabled

SERVERAPIKEY
  API key for SJM in KNM

AUTHENTICATIONTYPE
  Authentication method
  • 0: User List
  • 1: Login

LOGINTYPE
  Combination of three letter code to specify the login type when Login authentication method is selected.
  • p: enables PIN only
  • u: enables username and password only
  • c: enables ID card only
  • cp: enables PIN, and ID card
  • uc: enables username and password, and ID card
  • up: enables username and password, and PIN
  • puc: enables PIN, username and password, and ID card
  • 2: Logged on user

CREATESHORTCUT
  Whether to create shortcut on desktop
  • 0: Disabled
  • 1: Enabled

1 Run this command as administrator:
Installing optional components

```
msiexec /i "PathToTheInstaller"
SERVERADDRESS="Server_IP_Address"
SERVERPORT=8090 SERVERSSL=1
SERVERAPIKEY="ed3b6bb1e6c175edfd36f8f1cb34a134"
AUTHENTICATIONTYPE=1 LOGINTYPE="puc" CREATESHORTCUT=1 /quiet
```

2 Once installation is finished, you can access Smart Job Manager from the shortcut menu on the desktop.

CREATESHORTCUT must be set to "1", if set to "0", no shortcut will be created.

Changing Smart Job Manager settings

After initial installation, use this procedure for any changes to:

- Server IP address
- Server port
- API key
- Authentication method

1 In Windows, go to Control Panel > Programs and Features and select KNM Smart Job Manager. Click Modify.
Installing optional components

2 In the Setup settings screen, make configuration changes and click Install.

3 Review your changes and click Install.
Uninstalling Smart Job Manager

1. In Windows, go to Control Panel > Programs and Features and select KNM Smart Job Manager. Click Remove.
Click **Remove**.

Click **Finish**.

## Smart Job Manager for MacOS

Smart Job Manager is available for MacOS with the same functionality as the Windows version, with the following limitations:

- All notifications from the server have the same style, regardless of the settings on the server (Error, warning, notice, info)
- SJM uses the language setting of the device it is on. It does not use the language setting configured in KNM

SJM is installed with a shell script.

### Synopsis

```
sh install.sh -i <server IP> -p <server port> -s <SSL, use 1 for enabled> -k <client ID> -a <authentication type> -l <login type>
```

### Example

```
sh install.sh -i 192.0.2.0 -p 8080 -s 0 -k 5C843822-21AD-4683-B38F-C344B237E5CA -a 1 -l puc
```

### Parameters

- `-i`: KNM Server IP address, hostname can be used as well
Installing optional components

- **p**: KNM Server port, only numbers are allowed
- **s**: SSL connection, use 0 for disabled and 1 for enabled
- **k**: Client ID that should be used by Smart Job Manager for communication with KNM
- **a**: Authentication method:
  - "-a 0": For user list
  - "-a 1": For login authentication
  - "-a 2": For login using user logged into computer
- **l**: 3 letter code specifying what login methods are enabled, examples:
  - "-l p": Enables only PIN
  - "-l u": Enables only username and password
  - "-l c": Enables only card
  - "-l cp": Enables PIN or card login
  - "-l puc": Enables PIN, username and password or card login

**Uninstallation**
Select SJM application and “Move to Trash” in Finder.

**Logs location**
Logs are located in "~/Library/Logs/DiagnosticReports/"

**Smart Job Manager for Linux**

KNM includes Smart Job Manager for Linux. Supported Linux operating systems include Debian GNU/Linux 8, Ubuntu, Fedora, SUSE, and Red Hat. KNM Smart Job Manager must be installed on the computer where the KNM print drivers are installed. This location is either the dedicated print server or a user computer, depending on the print environment infrastructure and required functionality.

Smart Job Manager for Linux supports the following KNM features: Authenticate by PIN-ID Card, Authenticate by User name and Password, and select Projects for spooled jobs.

1. Install the gksu packages.
2. Install Smart Job Manager.
3. Right-click the Smart Job Manager icon in the system tray and click **Settings**.
4. Type the sudo password and click **OK**.
5. Type the server information and click **Save**.
6. If the server information was added correctly and the server is available, the **Status** shows **Connected**.
7. You can also select the default language. Click **Close**.
8 On the KNM server web interface, in Jobs, change the User detection method to Job Sender.

9 Create a print queue in the Linux OS to print to the KNM server. Using this queue, send a job. The job is displayed in KNM.

10 On the KNM server web interface, in Queue, change the user detection method to Prompt for PIN/card.

11 Send a job and when Job Authorization displays, type your PIN or ID card number. Choose how long you want the login information to be remembered. The available options include Never, Until logout, 1m, 5m, 10m.

12 Click Next to print or Delete to cancel.

13 If the credentials are not correct, click OK to close the dialog, and then click Refresh and re-enter your credentials.

14 On the KNM server web interface, enable Project and assign the user some projects.

15 Send a job from the Linux OS.

16 In Assigning projects, select from the drop-down list of Available projects.
17 Click **Print** or **Delete job**.

**Smart Print Services (SPS)**

The following features are supported by the client application Smart Print Services (SPS).

- Detecting pages from print spooler
- Secure printing
- Client spooling
- Failover printing

SPS is only available for Windows OS.

**Installing Smart Print Services (SPS)**

SPS is created as an external system and needs to have scopes (limits on what the external system can do) defined to work with KNM.

SPS requires a secure connection to communicate with the server. Set the server port to SSL port 8090 during installation. Secure printing is enabled by default during installation and cannot be turned off.

SPS has the same requirements as EJM for related features, such as needing the LPR port to be available. When setting the port on the client, ‘localhost’ should be used, not ‘127.0.0.1’.

1 In KNM, go to **Settings** > **External Systems** and click **Add new External System**.

   If there are prerequisites for SPS to work, such as .NET Framework, SPS opens a wizard to install the prerequisites.

2 Enter ‘Smart Print Services’ for the Title and choose the required scopes. Copy the Secret and Client ID for later use. Click **OK** to save.

   - ‘print.services’ is required for Client spooling and Local print monitoring
   - ‘printers’ is required for Local print monitoring
   - Choose other scope settings as needed
3 Double-click the installer for Smart Print Services.

4 You can change the default installation location. Agree to the license terms and conditions. Click Next.

5 Enter the KNM server settings. Enter the Client ID and Client secret you copied when creating the SPS external system. Enable Client spooling, if needed. Click Next.
Server address:
Enter the IP address or hostname of the server.

Server port:
Enter the server's HTTP port. The port for HTTP is 8080 or 8090 for HTTPS.

Server LPR port:
Enter the server's HTTP port. This is the port on which SPS listens and receives print jobs via the LPR protocol. The default is 515.

LPR over SSL:
Enable or disable LPR over SSL.

Client ID:
The Client ID you copied when creating an External System.

Client Secret:
The Secret you copied when creating an External System.

Client Spooling:
Enable or disable Client Spooling.

6 If Local Print Monitoring will be used, select Enabled.
Local Print Monitoring:
Enable or disable Local Print Monitoring.
Monitored ports can be left empty to monitor all ports. Enter specific ports to limit monitoring to those ports. You can use substrings to monitor all ports whose names contain the substring, such as "USB" for ports "USB1" and "USB2".

Job Storage:
Max size of all stored jobs: Set the space available in local storage for stored jobs. If the storage size is exceeded, jobs will be deleted, starting with the oldest one.
Jobs auto deleted after: Set the number of days to keep the jobs before deleting them.

Append domain name to username:
Select Append domain name to username if you want users to have authorization on multiple sites. This feature requires the multi-domain feature to be enabled on the server. Go to Settings > User Synchronization > Users to enable it on the KNM server. For more information, search for ‘multi-domain’ in the Administration Guide.

7 Click Next.
8 If required, enable Failover printing. Review the options below. Enter the Printer address and Printer port. Click Install.
Installing optional components

The following are failover printing setting options.

**Printer address:**
The IP address of the backup printing device to use for failover printing.

**Printer port:**
Set according to the selected printing protocol. To use Device spooling, select one of the following options:

- 10010: Device spool port for direct print
- 10011: Device spool port for secured hold print
- 10012: Device spool for Print&Follow
- 10013: Device spool for delegated printing

**Printer protocol:**
Select the printer protocol for sending the job to the backup printing device. The Printer port number will change to this protocol. The following protocols can be used:

- RAW (default port 9100): Basic printing protocol. No extra information is required
- IPP (default port 631): Internet Printing protocol. No port is needed. All information is in the printer address (for example. "ipp://myprinter.com:631/print")
- IPPS (default port 433): Secure version of the IPP protocol ("ipp://" is replaced by "ipps://")
• LPR (default port: 515): Line Printer Remote protocol. LPR requires entering the name of the queue where the jobs will be sent. (See FALLBACKPRINTERQUEUE.)
• LPRS (default port: 515): Secure version of the LPR protocol.
• MPP (default port: 10040): KNM printing protocol. Requires Embedded Terminal be installed on the printing device.
• MPPS (default port: 10040): Secure version of the MPP protocol; it requires a certificate to be uploaded to the printing device and to the user's computer while installing Smart Print Services.

Printer queue:
This setting appears when the LPR protocol is selected. Enter the name of the queue where jobs will be sent if the LPR protocol is used.

Certificate type:
This setting appears when the MPPS protocol is selected. Select from the following options:
• Certificate store: the certificate is stored in the Certificate Store
• Read from file: the certificate is stored as a file

Certificate name:
This setting appears when the Certificate Store option is selected. Enter the name of the certificate.

Certificate path:
This setting appears when the Read from file option is selected. Enter the file with the certificate.

Certificate password:
This setting appears when the Read from file option is selected. Enter the private key password.

9 If Visual C++ is not installed, a pop-up window for Visual C++ installation will display. Follow the steps in the wizard to complete Visual C++ installation.

10 If Visual C++ is installed, it is visible in the SPS installer. Click Install and finish the installation.

11 Once KNM Smart Print Services installation is complete, click Finish.

Installing Smart Print Services - silent mode

An MSI package is supplied for silent installation of Smart Print Services.

The installation path cannot be changed for silent installation.

If you installed SPS in silent mode, it must be uninstalled in silent mode.
Supported parameters for silent installation:

**SERVERADDRESS**
- KNM server IP address or hostname.

**SERVERPORT**
- KNM server port. Only numbers are allowed. The port for HTTP is 8080 or 8090 for HTTPS.

**SERVERLPRPORT**
- Port number on which KNM listens for LPR jobs.

**CLIENTID**
- Client ID used for the connection to KNM.

**CLIENTSECRET**
- Client secret used with the Client ID.

**LPENABLED**
- 0: Disabled
- 1: Enabled

**CLIENTSPooling**
- 0: Disabled
- 1: Enabled

**LPMports**
- Enter names of the ports to be monitored. Use a substring to monitor all local ports whose names contain the string, such as "USB" for ports "USB1", "USB2", and so forth. If you leave this setting empty, all ports are monitored.

**JOBEXPIRATION**
- The spooled job is stored for the duration of this period. The period is set in days.

**FALLBACKPRINTING**
- 0: Disabled
- 1: Enabled

**FALLBACKPRINTERADDRESS**
- Fallback printer IP address or hostname for local print spooling.

**FALLBACKPRINTERPORT**
- Fallback printer port to send jobs for local print spooling. To use the Device spool feature, select one of the following options:
  - 10010: Device spool port for Direct print. The job is printed after it is received by the printing device.
Installing optional components

- 10011: Device spool port for secured hold print. The job is spooled by the printing device and waits there till the user logs in and releases it. It is not possible to release this job on a different printing device.
- 10012: Device spool port for Print&Follow. The job is spooled by the printing device. Once the user logs on to any of the printing devices connected to the same subnet, information about this job is provided, the job is displayed in the list of the available jobs, and can be released.
- 10013: Device spool port for Delegated printing. Works the same way as Device Spool for Print&Follow, except that the job can be released by delegates of the sending user.

FALLBACKPRINTERQUEUE
Queue to which jobs will be sent when LPR is used for local print spooling.

FALLBACKPRINTERPROTOCOL
Protocols that are used for fallback printing.
- RAW - Basic printer protocol, no extra information required
- IPP - Internet printing protocol, no port is used, all information is in the printer address ("ipp://myawesomeprinter.com:631/print")
- IPPS - Same as IPP, except "ipp://" is replaced by "ipps://"
- LPR - Requires a valid queue name in the FALLBACKPRINTERQUEUE
- MPP - KNM printing protocol, requires KNM Embedded terminal to be installed
- MPPS - Same as MPP, required certificate to be added on the machine and setup in SPS

JOBEXPIRATION
Number of days after which the jobs are deleted.

MAXJOBFOLDERSIZE
When this limit is reached, jobs are deleted starting from the oldest one until the size of stored jobs is below the limit. (Size in MB).

CERTTYPE
Defines where the certificate is stored:
- 0: Computer certificate store
- 1: Certificate stored in a file

CERTNAME
Use with certificates from the Certificate Store.

CERTPATH
Use with certificates stored in a file. This is the path to the certificate that should be used.

CERTPASS
Use with certificates stored in a file. This is the password for the stored private key.
Installing optional components

APPENDDOMAIN

- 0: Disabled
- 1: Enabled

Example of a command line installation:

1 Substituting in appropriate IP addresses, run this command as administrator:

```cmd
msiexec /i "c:\SmartPrintService-KNM-Silent.msi"
SERVERADDRESS="10.189.16.61" SERVERPORT=8090
SERVERLPRPORT=515 CLIENTID="spslogin"
CLIENTSECRET="spssecret" CLIENTSPOOLING=0
FALLBACKPRINTING=1 FALLBACKPRINTERADDRESS="10.189.16.141"
FALLBACKPRINTERPORT=9100 FALLBACKPRINTERPROTOCOL="RAW"
JOBEXPIRATION=7 MAXJOBFOLDERSIZE =1000 LPMENABLED=0
APPENDDOMAIN=0 /quiet
```

2 Once the installation is finished, you can access KNM Smart Print Services in Windows at Control Panel > Programs and Features.

Changing Smart Print Services settings

After initial installation, use this procedure for any changes to:

- Server settings
- Additional settings
- Failover printing

1 In Windows, go to Control Panel > Programs and Features and select Smart Print Services. Click Modify.
The **Server settings**, **Additional settings**, and **Failover printing** screens display.

2. Make configuration changes, click **Next** on each screen, and click **Install** on the last screen.
3 Review your changes and click **Install**.

4 If you have enabled Client Spooling, Secure printing, or Failover printing, make the necessary changes to the print driver port configuration.

   Use 'localhost' instead of '127.0.0.1' for Client spooling and Failover printing port configuration.
Uninstalling Smart Print Services

1. Go to Control Panel > Programs and Features and select Smart Print Services. Click Remove.
Installing optional components

2 Click Remove.

3 Click Finish.

Uninstalling Smart Print Services - silent mode

Run the following command in a terminal window as Administrator:

```
msiexec /x "Path to the Installer"
```

Microsoft SQL server support - Master server

The MS SQL server for the Master server can be installed either on the same physical server as KNM or on a separate server. Increase the hardware environment configuration when running both KNM and SQL on the same server.

Microsoft SQL Server (MS SQL) can be used as the Master Server database (DB). The supported versions are: MS SQL 2012, 2014, 2016, SQL Server 2012 Express, SQL Server 2014 Express, and SQL Server 2016 Express.

The installer for the Master server supporting MS SQL is different from the installer for Firebird. To install a Master server using MS SQL, locate and run KNMM_{version}_setup.exe. There are also the following limitations:

- Firebird Master server cannot be upgraded to the Master server supporting MS SQL
- Data cannot be transferred from Firebird to MS SQL
Installing optional components

The access ports for the web interface are:

- http: 8083
- https: 8093

If delegates are used on the Master server site, add the delegates to the master server and synchronize the user information.

Connecting to MS SQL

1. Start SQL Server Configuration Manager in the MS SQL software.
2. Go to SQL Server Network Configuration > Protocols for XXXX. XXXX represents the name of the database. The example shows SQLEXPRESS.
3. Set the Status of TCP/IP to Enabled.
4. Right-click TCP/IP and open Properties.
5. In the IP Addresses tab, ensure that ‘1433’ is entered in all of the TCP Port IP addresses.
6. Click OK.
7 Go to SQL Server Services and restart SQL Server XXXX. (XXXX stands for the name of the database.)

8 Start KYOCERA Net Manager Easy Config.

9 Go to Database > Connection settings, and click Change.

Unless you have installed an SQL Master server, this option does not appear.
10 Enter the database information and click **Next**.

11 If a new database has been entered in the database connection information, you will be asked to confirm the database creation. Click **Yes**.

12 In Enter database creation credentials, re-enter the Username and Password for the database, and click **Next**.

13 If the CLR option is not enabled, it will need to be enabled on the server. Contact Kyocera support for this procedure.

14 After database registration is complete, click **Finish**.

**Share user credits across site servers**

With the Firebird Master server, each site server manages user credit. This means a user can have different credit on different site servers.

The MS SQL Master server manages user credit and shares it with the site servers, so that the credit for a user is the same on all site servers. You still have the option of allowing the user to have different credit on different site servers. You can view the credit balance of the user in the Master Server.

**Setting up the Master server to share credit**

1 Go to **Settings > Credit**.

2 Click the **Enabled** switch to turn it on and click **Save**.
3 Under **Users and Groups**, click **+Add item** and add users and groups to be synchronized with site servers.

4 Set **Type** to **Internal Account**.

**Setting up a Site server to share credit**

1 Go to **Settings > Server Type & Cloud**.

2 Under **Site server**, type a port number in the Port field and click **Save**.
   Type '8083' if secure connection is off, and '8093' if secure connection is on.

3 Go to **Settings > Credit**.

   **On the Site server, Credit should be enabled and the Payment Provider should be set to Master Server Account if you want the Master server to manage the credit accounting for the Site server.**

4 Click the **Enabled** switch to turn it on and click **Save**.
5 Under Users and Groups, click +Add item and add users and groups to be synchronized with Master server.

6 Set Type to External Account and set Payment Provider to Master Server Account.

KYOCERA Net Manager Port

With the Port Monitor utility for KNM, a port can be easily configured for failover capability. Two IP addresses must be designated, one for the primary KNM server and another for the backup failover server, typically a printing device with compatible Embedded Terminal. In the event that the primary server fails, the port switches to the secondary printing device and jobs will be forwarded using the RAW protocol.
Port Monitor can also divert jobs of a certain size or larger directly to the printing device, bypassing the server, to reduce network traffic and improve document workflow performance.

Port Monitor can be installed two ways, via a wizard or via the command line Silent Mode. Silent Mode allows administrators to install and configure port settings in one action from the command prompt.

**Installation using the wizard**

The following products are required for Port Monitor:

- KYOCERA Net Manager
- KX Driver v 7.2 and later
- A printing device that supports Embedded Terminal features

Follow these steps to install KYOCERA Net Manager Port:

1. To start the installation, double-click `setup.exe` in the KYOCERA Net Manager Port setup folder.

2. The license agreement screen will be displayed. To review the license agreement, click **View License Agreement**. Read the License Agreement, click **Accept**, and then click **Next**.
3 The Confirm Settings screen is displayed. Click **Install** to start the installation.

4 When the installation finishes, the Installation Completed screen will be displayed. Click Finish to complete the installation. If you check the Start
KYOCERA Net Manager Port checkbox, the KYOCERA Net Manager Port Configuration dialog opens after installation.

Silent install

Silent install runs installation through configuration in one action by directly entering commands from the Windows command prompt. Silent install is convenient when installing on multiple PCs with the same settings.

To run silent install, you are required to install KX Driver for the target device on your computer in advance.

1. In Windows, open a command prompt with Administrator privileges.
2. Navigate to the folder containing the Port Monitor installer file (setup.exe), and then enter and execute the commands as shown.

  Commands are case sensitive.

```bash
setup.exe CREATEPORT -s -portname "KNM Port" -pri_addr "10.10.10.10" -pri_queue "Queue1" -com_jobforward "1" -com_jobsize "512" -sec_addr "10.10.10.11" -sec_port "Print&Follow"
```

In this example, the port name is "KNM Port", the primary port's address is "10.10.10.10", the queue name is "Queue1", jobs larger than 512 MB are sent directly to the device (Secondary), the secondary port's address is "10.10.10.11", and the port is specified as "Print&Follow".
If you have turned on Autodetect Site server address in KX Driver, use "10.00.00.00" for -pri_addr as a dummy Site server address.

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
<th>Corresponding setting in KX Driver</th>
</tr>
</thead>
<tbody>
<tr>
<td>setup.exe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CREATEPORT -s</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-portname &quot; &quot;</td>
<td>Port name for Port Monitor. Specify the port name in quotes (&quot; &quot;).</td>
<td>(1)</td>
</tr>
<tr>
<td>-pri_addr &quot; &quot;</td>
<td>Primary port's IP address. Specify the address in quotes (&quot; &quot;).</td>
<td>(2)</td>
</tr>
<tr>
<td>-pri_queue &quot; &quot;</td>
<td>Queue name. Specify the name in quotes (&quot; &quot;).</td>
<td>(3)</td>
</tr>
<tr>
<td>-com_jobforward &quot; &quot;</td>
<td>Divert by job size: 0: No, 1: Yes</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td>Jobs larger than the specified size are sent directly to the secondary device.</td>
<td></td>
</tr>
<tr>
<td>-com_jobsize &quot; &quot;</td>
<td>Size to divert. Specify job size in quotes (&quot; &quot;). The range is 1-9999 MB.</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td>Jobs larger than the specified size are sent directly to the secondary device.</td>
<td></td>
</tr>
<tr>
<td>-sec_addr &quot; &quot;</td>
<td>Secondary port's IP address. Specify the address in quotes (&quot; &quot;).</td>
<td>(5)</td>
</tr>
<tr>
<td>-sec_port &quot; &quot;</td>
<td>Secondary Port Number. Specify one of the following in quotes (&quot; &quot;):</td>
<td>(6)</td>
</tr>
<tr>
<td></td>
<td>• Direct</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Hold</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Print&amp;Follow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Delegated printing</td>
<td></td>
</tr>
</tbody>
</table>

The numbers in the illustration correspond to the commands in the table above.
3. Associate the Port Monitor ports with the port in the target device's KX Driver. Open a terminal window and change the location to C:\ProgramFiles(x86)\Kyocera\KYOCERA Net Manager\PMServer. From the command prompt, type the following and execute:

**For 32-bit OS environment:**

```
    kminst32 SETPRN -p "device name" -pt "KNM Port"
```

**For 64-bit OS environment:**

```
    kminst64 SETPRN -p "device name" -pt "KNM Port"
```

For "device name," enter the printer name shown in KX Driver properties.

For "KNM Port," enter the port name shown in KX Driver properties.
Installing optional components

Uninstall

Port Monitor for KYOCERA Net Manager can be uninstalled by following these steps:

1. In Windows, navigate to Program or App controls in Control Panel or Settings, depending on the Windows version.
2. Find KYOCERA Net Manager Port and the option to uninstall.
3. When the Uninstall dialog box appears, select **Uninstall**.

Silent install is now complete.
4 When the Uninstall Complete dialog box appears, click Next.

5 The Restart Your System dialog box is displayed. To complete the uninstall, close all running programs and restart the computer.
Configuration

After installing Port Monitor for KYOCERA Net Manager, you must add KNM Port to the target device's KX Driver.

This section explains how to add, change the configuration of, or delete KNM Port.

Adding KNM Port

To add a new KNM Port, follow the steps below.

You are not required to perform these steps if you have already added KNM Port during the silent install.

1. Locate the printer in Windows Settings or Control Panel and open Printer Properties.

2. Select the Ports tab and click Add Port.
3 Click KYOCERA Net Manager then click New Port.

4 The KYOCERA Net Manager Port configuration dialog appears. Configure the following settings as needed. When the configuration is completed, click OK.
Installing optional components

The numbers in the illustration correspond to the commands in the table below.

<table>
<thead>
<tr>
<th>Key</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Port Name</td>
<td>You can enter up to 32 single-byte alphanumeric characters. Once entered, the port name cannot be changed. The default is KNM Port.</td>
</tr>
<tr>
<td>(2)</td>
<td>Primary IP Address</td>
<td>IP address of the KYOCERA Net Manager server. When Auto detect site server address is on, this value will be shown as &quot;Auto detect site server address&quot;.</td>
</tr>
<tr>
<td>(3)</td>
<td>Queue Name</td>
<td>Queue name of the KYOCERA Net Manager server. You can enter up to 64 single-byte alphanumeric characters.</td>
</tr>
<tr>
<td>(4)</td>
<td>Send print job to device more than</td>
<td>When cleared, all jobs are sent to the KYOCERA Net Manager server. This is the default setting.</td>
</tr>
</tbody>
</table>
## Installing optional components

### KYOCERA Net Manager 9-39

<table>
<thead>
<tr>
<th>Key</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>When checked, jobs larger than the specified size are sent directly to the secondary device. The range is 1-9999 MB. The default is 512 MB.</td>
<td></td>
</tr>
<tr>
<td>(5)</td>
<td>Secondary: Device IP address</td>
<td>The device's IP address.</td>
</tr>
<tr>
<td>(6)</td>
<td>Port Number</td>
<td>10010: Direct The job is released immediately. 10011: Hold The job is stored on the printing device and released when the user logs into it. 10012: Print&amp;Follow The job is stored on the device. A user can release it on the printing device or on another client device that designates the device as its device server. 10013: Delegated printing A delegated user can release a job sent by another user and print it.</td>
</tr>
</tbody>
</table>

5 In the Printer Port dialog, click Close.

6 In Printer Properties, click Apply and then OK.

### Configure or Change KNM Port Settings

KNM Port settings can be changed by following these steps:

1 Locate the printer in Windows Settings or Control Panel and open Printer Properties.

2 Select the Ports tab, click KNM Port, and click Configure Port.
3 The KYOCERA Net Manager configuration dialog is displayed. Change settings as needed and click **OK**.

4 In the Printer Properties dialog, click **Apply**, and then **OK**.

**Deleting KNM Port**

To delete KNM Port, follow these steps:

1 Locate the printer in Windows Settings or Control Panel and open Printer Properties.

2 Select the Ports tab, click **KNM Port**, and click **Delete Port**.
3 Click OK on the confirmation screen.

4 In the Printer Properties dialog, click Apply, and then OK.

Installing KNM OCR software

The new KYOCERA Net Manager OCR (Optical Character Recognition) software turns PDF documents into machine-readable text.

KNM only supports the Tesseract engine. The ABBYY engine is not supported.

Requirements:
• Operating system: Windows 7 and newer / Windows Server 2008 (SP1-2, R2) and newer
• Required level of privileges: user with Administrator rights
• Memory for processing multi-page documents: minimum 1GB RAM, recommended 1.5 GB
• HDD space: 1.59 GB for installation
Installing optional components

If possible, install OCR software on a separate server. Installation on the same server as KNM can impact software performance.

1 Double-click setup.exe to begin installation of KYOCERA OCR Server. Click Install.
2 Select the languages that OCR Server should use and assign the working folder. The working folder location must match the setting in the OCR working folder in KNM. Click **Apply**.

KYOCERA OCR Server can be modified or uninstalled by running setup.exe again.

3 In KNM, go to **Settings > Printers > Scanning & OCR**.
4 Set OCR to Enabled. Set the OCR server type to KYOCERA Net Manager OCR. Set the OCR working folder. The default is %app%\OCR.

![Setting OCR Parameters](image)

Do not change the OCR engine working folder.

5 Under Profiles click +Add and enter a name for the profile and the desired output format. In this case, we are using PDF_OCR as the profile name and pdf as the output format.

6 Go to Terminal Actions and select an Easy Scan terminal action. In this case, we are using Easy Scan - Email.

7 Select Parameters > Format.

8 For the Default value, select the profile you created. In this case, PDF_OCR.

9 Click Save.
10 Upgrade and Uninstall

Upgrade

Before updating on Windows Server 2008 / 2008 R2 / 2012 / 2012 R2 / 2016 (or on Windows 7/ 8/ 8.1/ 10), make sure that the latest Windows updates are downloaded and installed on the server.

Direct upgrade to 7.0 and higher versions from versions lower than 5.10 is no longer supported. These versions have to be upgraded via an intermediary version, for example update to v6.2 first.

To upgrade your KNM version or to reinstall the current version, back up your database and save the files in the KNM directory. Then follow the instructions for installing KNM.

If the KNM installer detects an older KNM version, it asks you for permission to proceed with the installation. Click Yes.

Uninstall

1 To uninstall KNM, run unins000.exe in the directory C:\ProgramData\Kyocera \KYOCERA Net Manager\.

2 Click Yes to continue.

   Uninstallation includes the database and web server.

3 Click OK.

The KNM uninstallation does not delete KNM database files. These files can be deleted manually. If you leave them in the system, they will be detected by KNM during the next installation. The installer prompts you to choose to use the older database files or overwrite them.