

**ACCESS LOCK**

Powered by **HyPAS™**

## **SET UP AND OPERATION GUIDE**

**Version 5.1**

**November 2016**

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Terms used in this document

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<b>Term</b>	<b>Explanation</b>
<b>MFP</b>	Kyocera Multi-Function Printers
<b>HyPAS</b>	Hybrid Platform for Advanced Solutions: software technology included in many Kyocera MFPs.
<b>KX Driver</b>	Kyocera extended driver for advanced printing functions

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## Introduction

Access Lock is a software suite used for regulating access to Kyocera MFPs for improved security and reduced wastage. This user guide covers functionality offered by the software and the tasks required to deploy the solution.



### Access Lock

#### Network integrated access control

- Network-based access control for workgroups and enterprises
- Network user authentication
- Access restrictions managed using active directory
- Optional authentication bypass for monochrome copies
- Authentication with HID/CAC card, optional two-factor authentication

## Access Lock

Access Lock provides a comprehensive authentication and authorization solution for HyPAS-enabled Kyocera MFPs. Several LDAP-based authentication options are provided. Access to MFP functions can be regulated by assigning permissions to user groups.

### Features summary

- Authentication options
  - Username and password
  - Proximity card swipe
  - Proximity card swipe + numeric PIN (Two-factor)
  - CAC / PIV card support with Cryptek Netgard device
  - Anonymous authentication for limited access
  - Local MFP authentication
  - Multiple LDAP servers (domains) supported (up to 5)
  - Payment to Coin Vending Machine
- Authorization
  - MFP functions can be locked or allowed based on user's LDAP group membership
- Remote Configuration
  - Create and maintain settings using utility
  - Upload settings to multiple MFPs using utility
- Software Compatibility
  - LDAP V3 is used to communicate with directory servers such as Microsoft Active Directory.
  - SSL/TLS support is available to encrypt communication between MFP and directory server. Note: SSL/TLS must be enabled on the directory server for this feature to work properly.

### What's New in Version 5.1

- LDAP Server Host name and IP Address fields are now separate.
- Ability to search through a list of user names for the ID Card Authentication Query Account Name instead of having to manual enter the fully distinguished name of a user account.

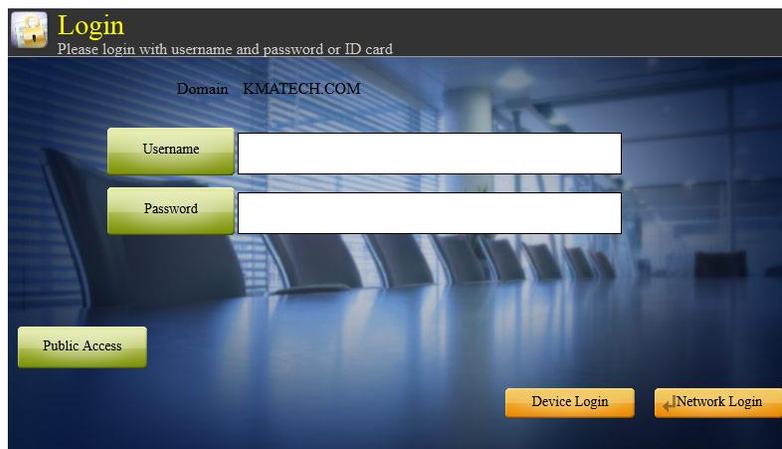


## Supported models

For a full and updated list of supported MFP models, please refer to the AccessLock product page on [KDAConnect.com](http://KDAConnect.com).

## Authentication

The purpose of authentication is to establish user's identity. At the login screen on the MFP, the user has several methods for authentication. Each of these can be enabled or disabled by the Administrator. This section describes the end-user experience with each authentication mechanism.



## Network Authentication

### Logging in with Username and Password

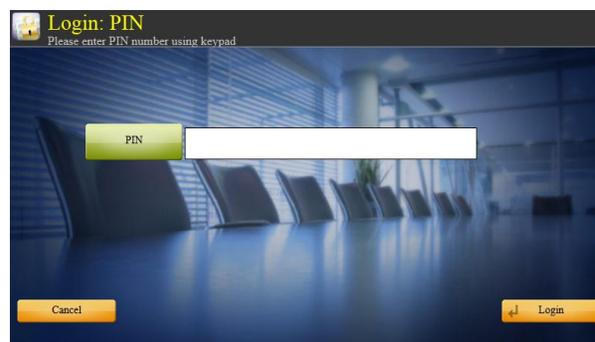
1. Press the Username button. Enter username using software keypad that appears
2. Press the Password button. Enter password using software keypad that appears.  
Note: Password will appear as \* characters
3. Press the Network Login button (or press the Return button on the keypad)

### Selecting domain

1. If multiple domains are available for authentication, the login screen will display a domain selection dropdown.
2. User can change the domain before authenticating with the methods listed in this section.

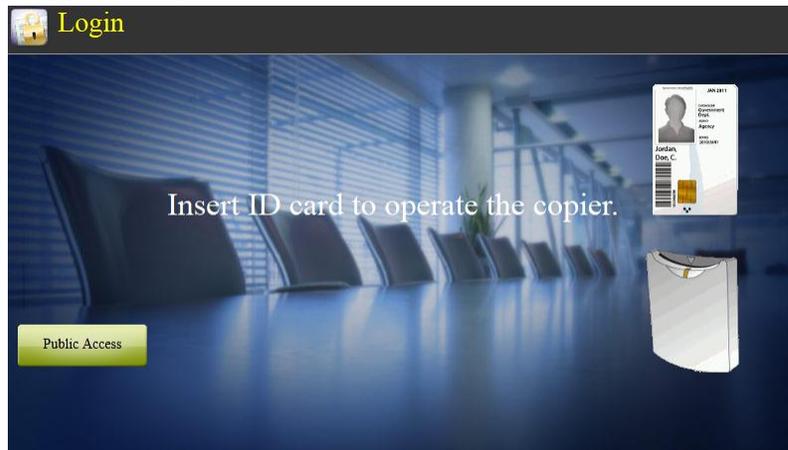
### Logging in with Proximity card

1. Simply swipe ID card at the card reader to authenticate.
2. If the MFP is configured for Two-factor authentication, the MFP will prompt for a PIN number. PIN number can be entered using the numeric keys on the MFP keypad.



### Logging in with CAC/PIV card using Cryptek Netgard

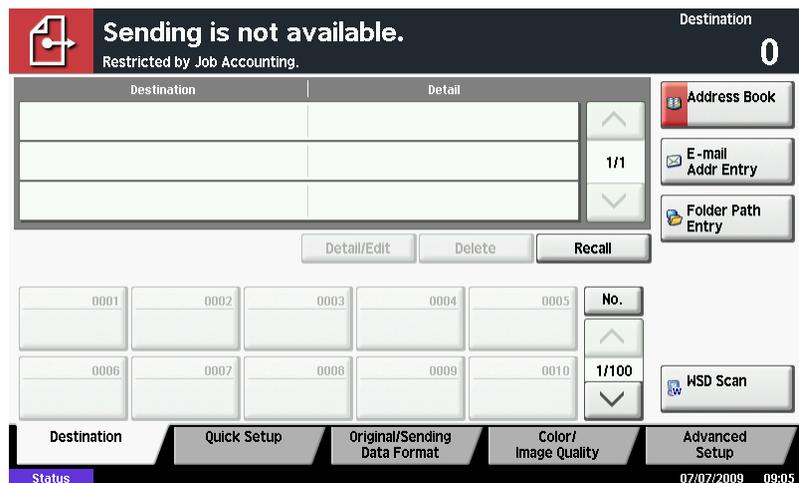
1. If the system is configured to with Cryptek Netgard, the operation panel will display an animation of the CAC card being inserted into the reader as shown to the right.
2. When CAC / PIV card is inserted into the reader, the panel will prompt for a PIN number. When the correct PIN is entered, the MFP is unlocked.



**NOTE:** Only a limited number of retries will be allowed before the card is locked out.

### Public Access button

1. 'Public Access' button will be displayed only if configured by the Administrator.
2. Pressing the Public Access button allows the user to access certain functions of the MFP that are allowed for public use. For example, all users could be allowed to make monochrome copies without authentication.
3. If the user tries to access a function that is not allowed under Public Access, the MFP will display a message stating the function is not available as shown below.



### MFP-Local authentication

Users can also login to access MFP functions using credentials programmed into the MFP. This is especially useful to perform administrative operation on the MFP using the panel. This type of authentication does not require LDAP server.

Note: Default username and password are Admin, Admin.



## Using Access Lock with Coin Vending Machine

Access Lock can be used together with a Coin Vendor machine such as a JAMEX vending system.

When user inserts coins (or payment card) into the payment device, MFP will be unlocked to allow user to make copies. User will be logged in to the MFP till coins are exhausted (or payment card is removed).



## Authorization

After user's identity is established through authentication, the system would allow or deny access to MFP functions. Access control policies are defined by the Network Administrator. This section describes how policies are defined and how the software works to determine functions that are allowed or denied.

### Access Control policy

The following table lists where permissions are defined for each authentication method.

Login method	Access control policy
<b>Network login</b>	Permissions are assigned to LDAP user groups. Effective permissions are determined based on groups the user belongs to.
<b>Public Access</b>	Permissions set by administrator, applies to anyone using 'Public Access' button.
<b>MFP-local</b>	Permissions set on the MFP for the local user account.

### Permissions

Following functions of the MFP can be individually restricted in access control policies.

Permission	Description
<b>Copy</b>	Access to copier function This includes Monochrome, Color, Auto-color and single color.
<b>Copy color</b>	Permission to make color copies
<b>Send</b>	Permission to scan documents
<b>Print</b>	Allow or deny printing from document box. To control printing from PC, refer to section on PC printing authorization.
<b>Print color</b>	Permission to print documents in color
<b>Fax</b>	Permission to use MFP's fax capability
<b>Administrative access</b>	Level of access: Administrator or User



## Accounting

When used together with PaperTrail, Kyocera's job tracking software, Access Lock can report users' activity on the MFP to a central database for accounting and auditing purposes. This allows generation of detailed usage reports to:

- Study how the equipment is being utilized
- Minimize wastage by restricting color
- Maximize utilization by relocating devices

Detailed information about each job (print, copy, scan and fax) is collected and transmitted to the server in encrypted TCP messages. If the server is temporarily not available, the data is cached locally and then transmitted to the server at the next connection opportunity.

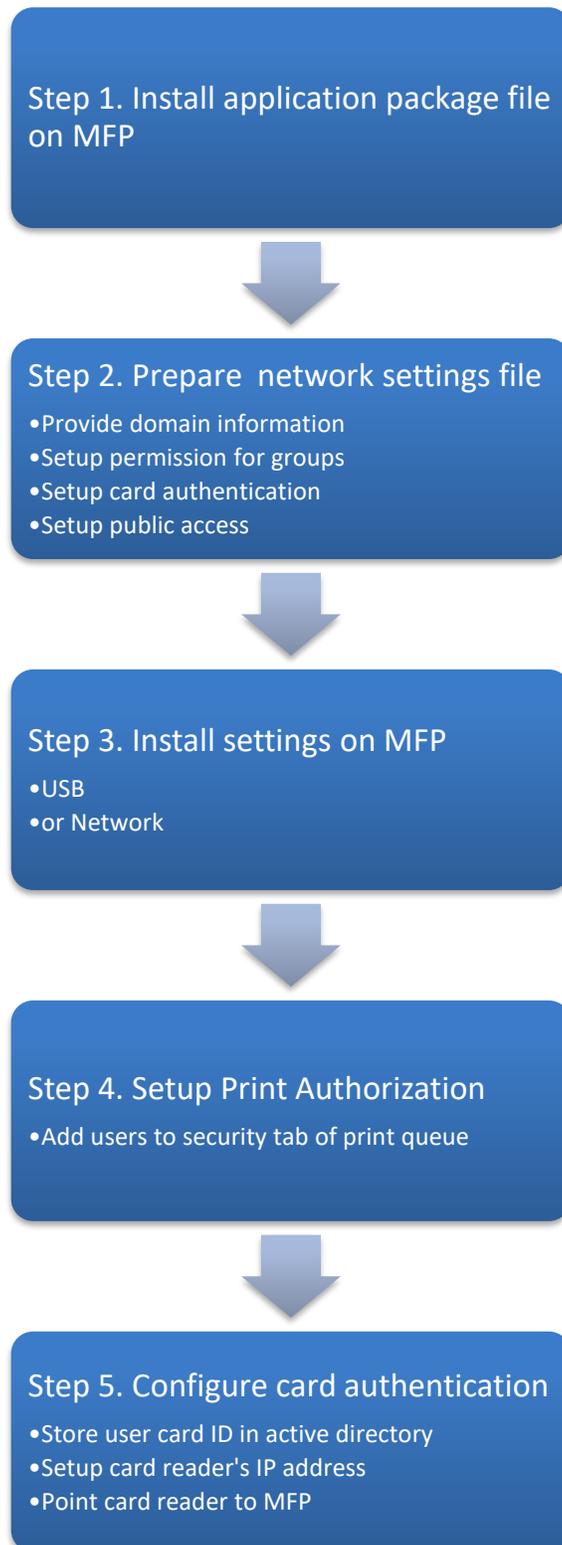
Job information includes:

- Job owner (login account including domain)
- Document name
- Scan and fax destinations
- Page details: color/monochrome, size, media type, output tray, duplex



## Installation and Setup

### Setup Outline



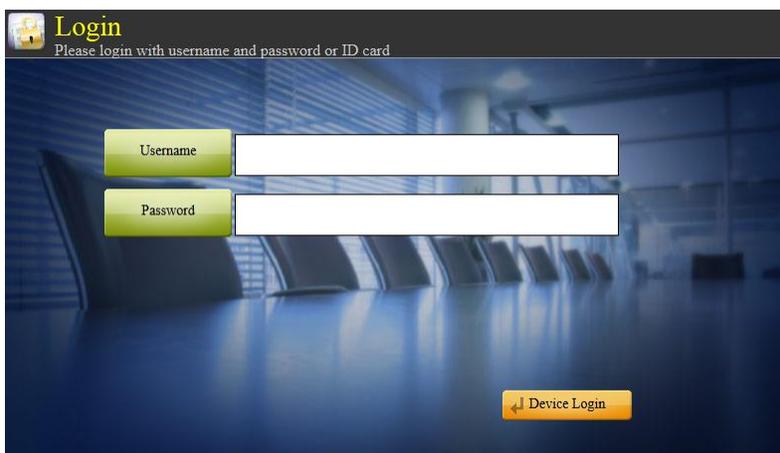
## Step 1. MFP Application Installation

### Required File

- AccessLock4.pkg

### Installing Access Lock

1. Copy *AccessLock4.pkg* from *C:\Program Files\Kyocera\Access Lock* to the root folder of an empty USB flash drive. Do not copy both .pkg files to the flash drive. Copy only one depending on the MFP model.
2. Open *System Menu* and scroll to next page and press *Application* button. If prompted to authenticate, login with an administrator account. The application screen will list all applications currently installed on the MFP.
3. Press *Add* button to open *Application-Add* screen. Then insert the USB flash drive into USB slot at the side of the panel. Within a few seconds, the MFP will display *AccessLock* in the list of applications found on the USB flash drive.
4. Select *AccessLock* and press the *Install* button. When prompted to confirm, press *Yes*. The MFP will confirm that the application installed correctly. Then, press the *Remove Memory* button. After the MFP confirms that it is safe to remove the USB memory device, remove it from the MFP.
5. Press the *Close* button to exit back to *Application* page.
6. Select *AccessLock* and press *License On* button. When prompted to confirm licensing, press the *Yes* button.
7. Press the *Close* button to exit back to the *System Menu* screen. Wait for approximately one minute for the security application to take effect.
8. Immediately after installation, the authentication screen would allow only local (device) authentication as shown below. Default administrator username and password is 'Admin', 'Admin'.



The screenshot shows a login interface with a dark blue background. At the top left, there is a small icon and the word "Login" in yellow. Below it, the text "Please login with username and password or ID card" is displayed. There are two white input fields with green labels: "Username" and "Password". At the bottom right, there is a yellow button with a lock icon and the text "Device Login".



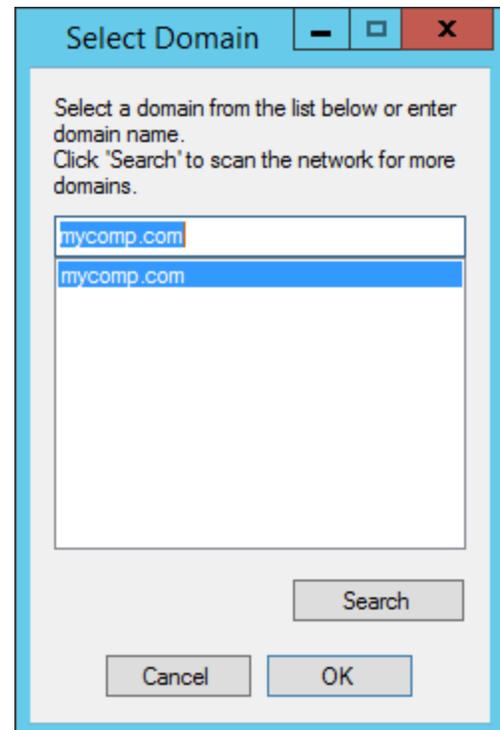
## Step 2. Prepare Network Settings

### Installing Configuration Utility

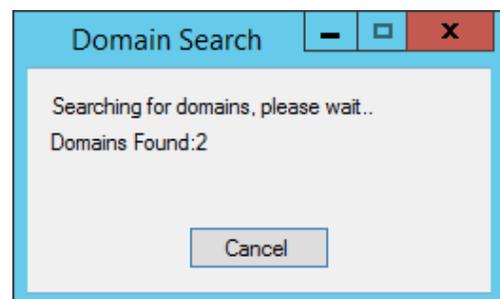
- Execute *Access Lock setup.exe* to begin installation. Follow the installation wizard screens to complete installation.
- The default installation location is *C:\Program Files\Kyocera\Access Lock*, which can be changed if required.
- The installer may download and install *Microsoft .NET 2.0 Framework*, as it is a pre-requisite.

### Setting up Authentication

- Launch *Access Lock Settings application* by clicking on *Start > All Programs > Kyocera > Access Lock > Settings*
- Click *File > New* to create a new configuration
- Click *Edit > New Domain* to add a domain to the configuration
  - Either select a domain from the list or enter domain name manually



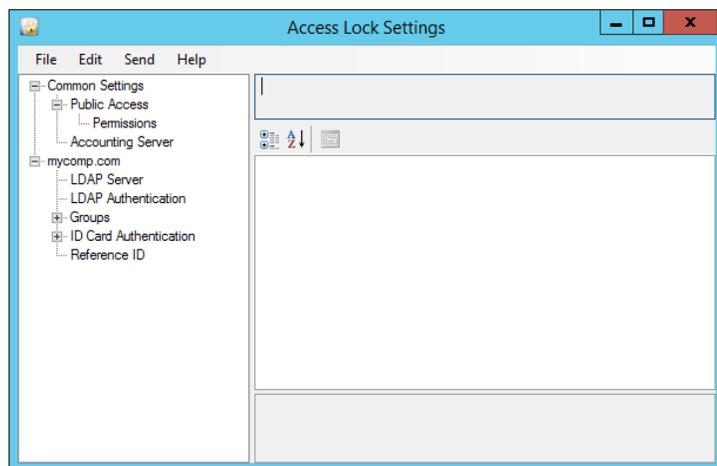
- Click Search button to find domains using WMI. Searching with WMI may take a few minutes to complete.



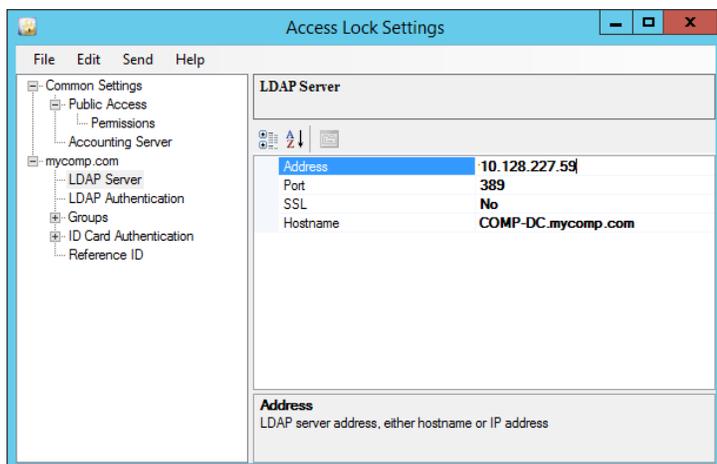
- Some domains may require user credentials to access member objects. In such case, the software may prompt for user login. If authentication information is not available (ex., when setting up off-line) or not required (ex., simple CAC authentication), click the 'Don't Access Domain' button



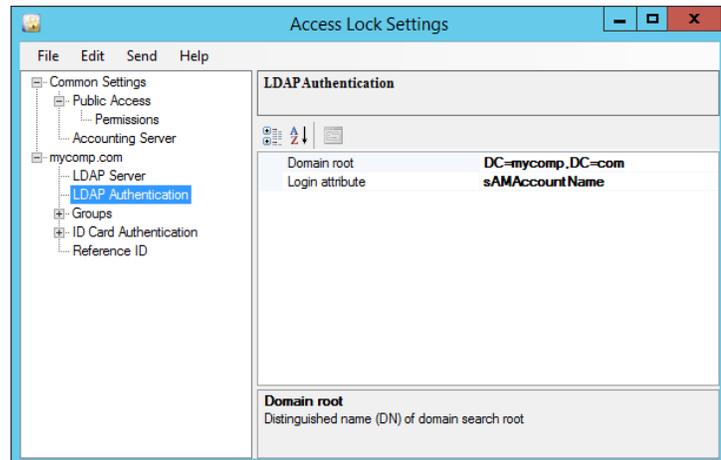
- The configuration tree should now look like:



- LDAP Server
  - **Address:** IP Address of domain controller
  - **Port:** Default value for Active Directory is 389
  - **SSL:** Enable if LDAP server is configured to allow SSL/TLS communication
  - **Hostname:** Host Name of domain controller

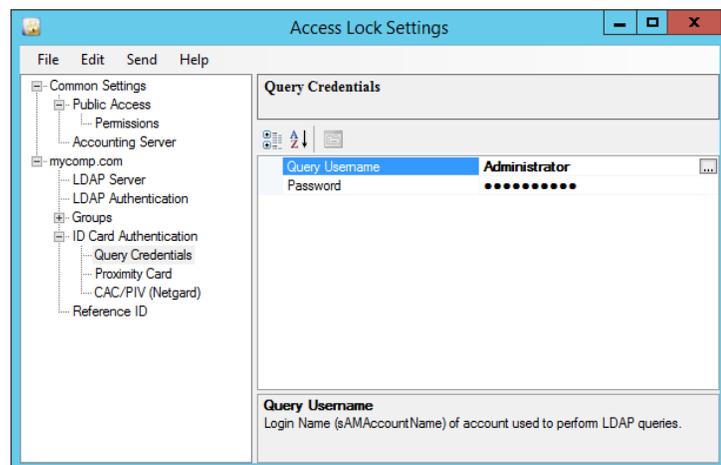


- LDAP Authentication
  - **Domain root:** Starting point for user search. Typically, it would be:  
CN=Users,DC=<domain>,DC=<com>
  - **Login attribute:** Typically, login name is stored in *sAMAccountName* attribute



- ID Card Authentication
  - Two types of ID cards are supported
    - Proximity Cards using RFIdeas USB card readers. Several card types are supported, please refer to RFIdeas web site.
    - CAC/PIV Cards using Cryptek Netgard device.
  - Query Credentials are required when using either ID card system. Query credentials are used only to lookup user information from Active Directory.

- Query Credentials
  - **Query Username:** Enter the name of a user account that will be used for running queries on Active Directory. You can also press the ellipsis button (...) to view a list of available users
  - **Password:** Password to the query user account



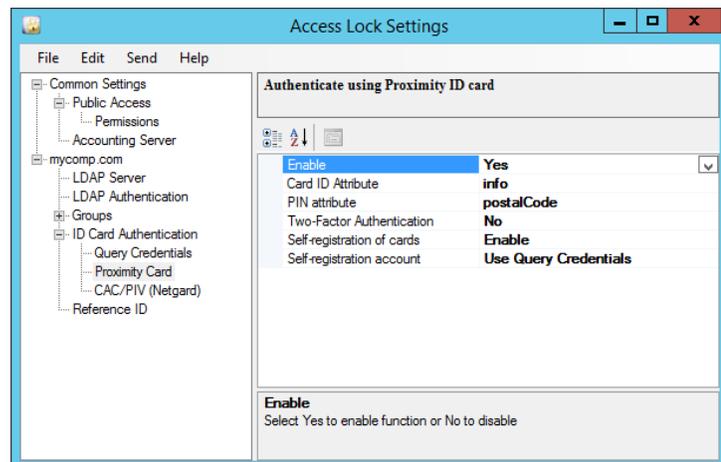
*Note: Query credentials are stored in a secure, encrypted form in the configuration file.*

*Note: On Microsoft Exchange Server, this user account must be added to the 'Pre-Windows 2000 Compatible Access' group. Membership to this group allows executing queries on Exchange Server. Steps for this can be found at:*

<http://support.microsoft.com/kb/325363>.

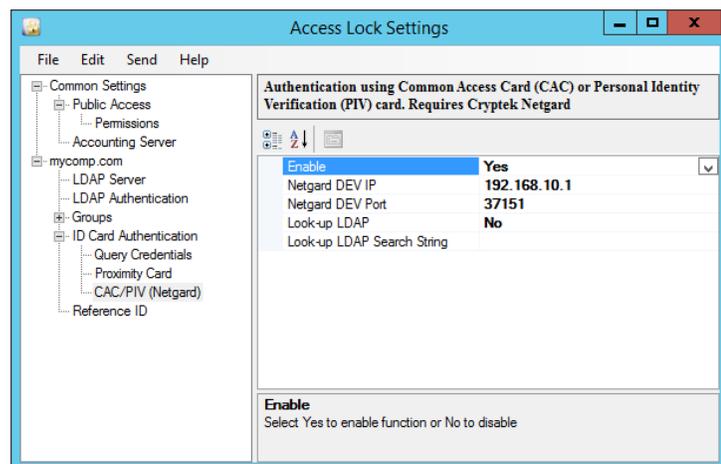


- Proximity Card Authentication
  - **Enable:** Turn ON/OFF proximity card authentication
  - **Card ID Attribute:** LDAP attribute where Card ID is stored
  - **PIN Attribute:** LDAP attribute where PIN number is stored
  - **Two-Factor:** If selected, user must enter a PIN number after swiping ID card.



- **Self-registration of cards:** Enable/Disable end-users from registering their cards at the MFP panel after authentication
- **Self-registration account:** Indicate the account to be used for registering card in Active Directory. If "Use Logged-in User Credentials" is selected, Access Lock would use the end-user's credentials to register the card. If "Use Query Credentials" is selected, the credentials provided under the 'Query Credentials' field are used for all users. If the account has insufficient rights to update Active Directory, registration would fail.

- CAC/PIV Card Authentication (Cryptek Netgard)
  - **Enable:** Turn ON/OFF CAC/PIV card authentication
  - **Netgard DEV IP:** IP address assigned to the DEV port on Netgard. Default value is 192.168.10.1.



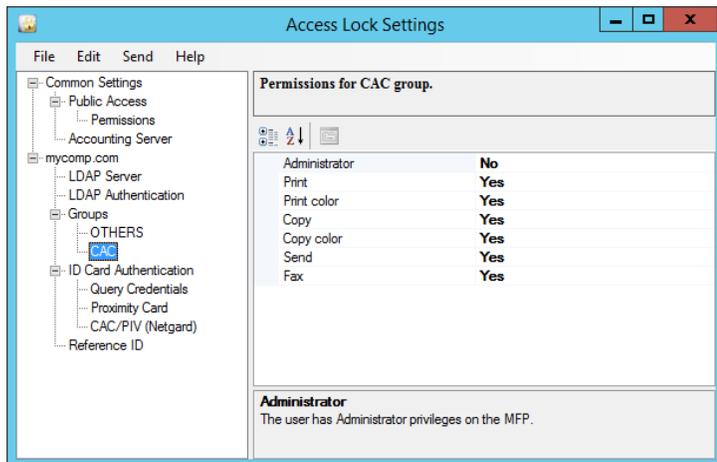
- **Netgard DEV Port:** Port number used to communicate with Netgard. Default value is 37151.
- **Look-up LDAP:** Enable this feature to retrieve user information from Active Directory. For this feature to work correctly, LDAP authentication on Netgard must be enabled and configured correctly as described in the [Appendix: Setting up Cryptek Netgard: Setting up LDAP authentication](#).



When Look-up is enabled, Access Lock will:

- a) Query LDAP for the user's group membership;
- b) Deny login if the user account does not exist;
- c) Assign permissions based on membership. In addition, email address will be obtained from LDAP.

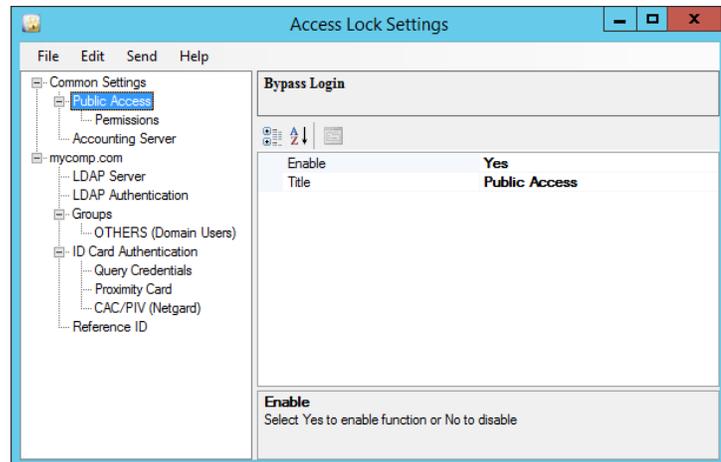
When look-up is disabled, the user will be assigned permissions programmed in 'CAC' group. CAC group is a special group in Access Lock settings that is not part of Active Directory or LDAP.



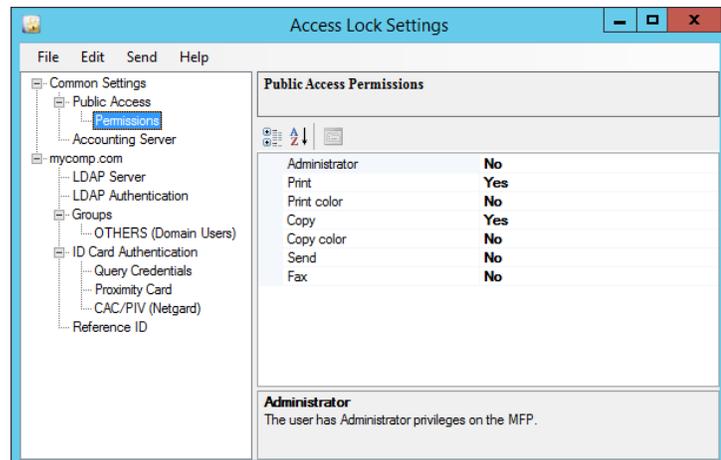
### Setting up Anonymous Access

Enabling *Public Access* displays a button on the login screen that would allow users to access device functions without authenticating with username and password. Permissions for such login can be configured under *Common Settings > Public Access*.

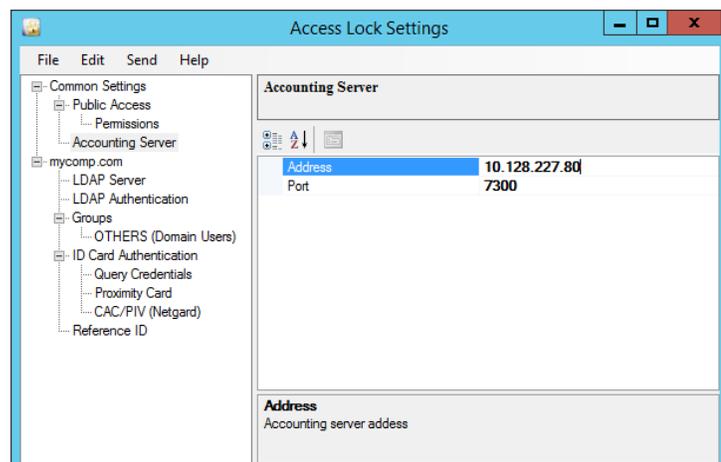
- Common Settings > Public Access
  - **Enable:** Show *Public Access* button and allow anonymous authentication
  - **Title:** Label that should appear on the button



- **Permissions:** Privileges applied when user gains access via this button

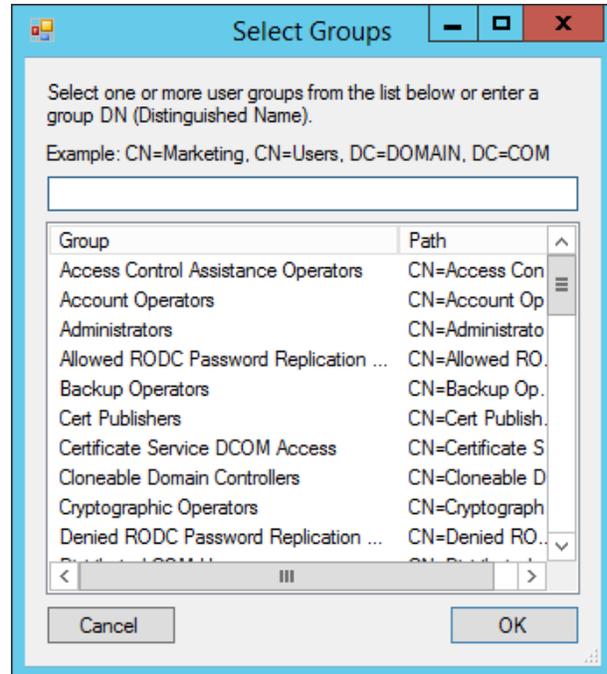


- Common Settings > Accounting Server
  - **Address:** IP address or Host-name of accounting server
  - **Port:** Port number used to transmit usage data (Default: 7300).

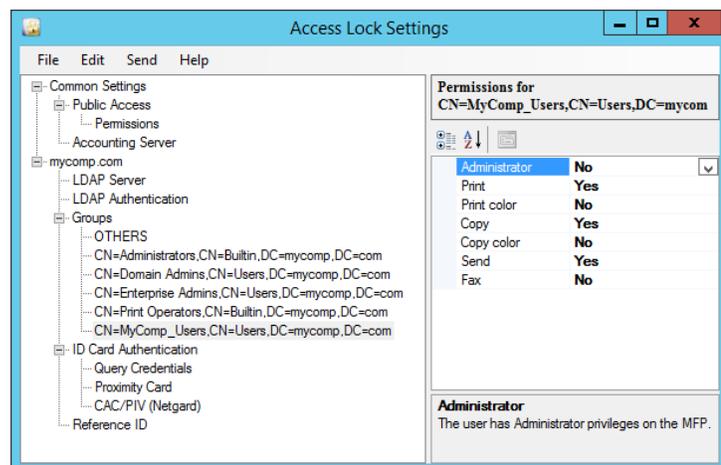


### Setting up Group Permissions

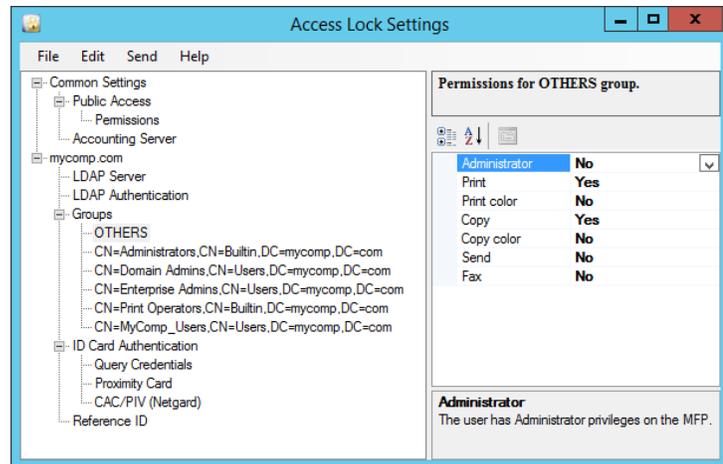
- Click *Edit > New Group* from the menu (or *Group > New* from the context menu).
- The select groups dialog appears, showing all user groups in the domain. Administrator can either select one or more groups from the list or key-in a group DN manually.



- Each group appears in the tree view as a node. Select one or more nodes to view and edit permissions. Example to the right shows color output and fax restricted.



- OTHERS group serves as a 'catch-all' group. It cannot be renamed or deleted. If a user logs in and does not belong to any of the configured groups, he is assigned permissions from the OTHERS group.

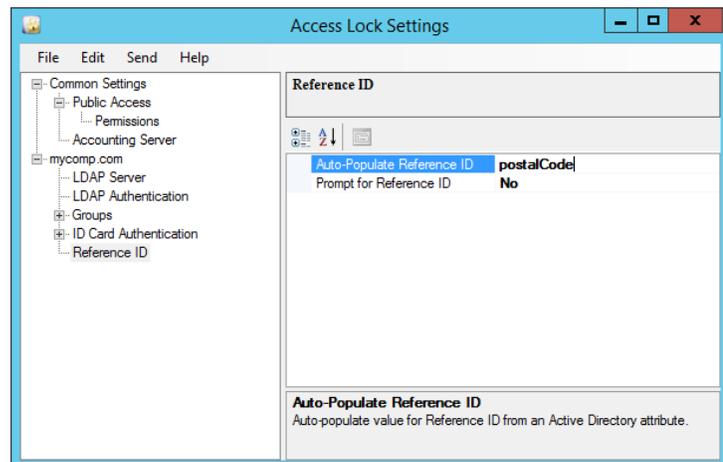


- Permissions:
  - Print:** User can print
  - Print Color:** If print and print color is enabled, user can print color pages
  - Copy:** User can make copies
  - Copy Color:** If copy and copy color is enabled, user can make color copies
  - Send:** User can scan and send images to destinations
  - Fax:** User can send faxes
  - Administrator:** User get administrator privileges on the MFP

### Setting up Reference ID Lookup

Access Lock can be setup to automatically lookup Active Directory and retrieve a value for Reference ID. This value is then used to track activities performed at the copier.

- Reference ID > Prompt Reference ID:** Select Yes to display a text box prompting for a Reference ID value at the login screen.
- Reference ID > Auto-Populate Reference ID:** Enter the name of an LDAP attribute name that contains the Reference ID value.

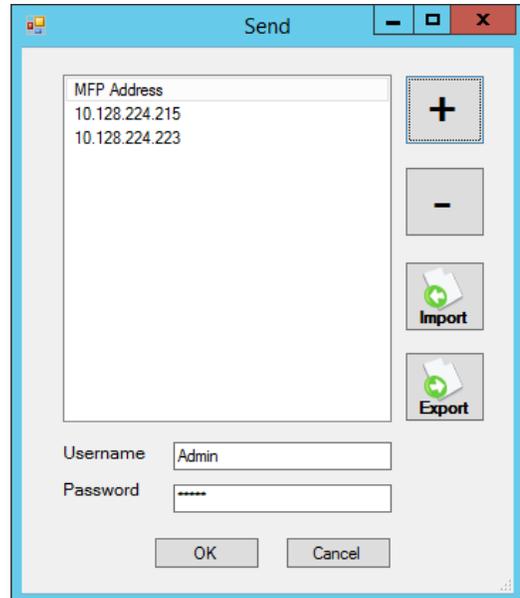


### Step 3. Install settings on MFP

#### *Installing settings over the network*

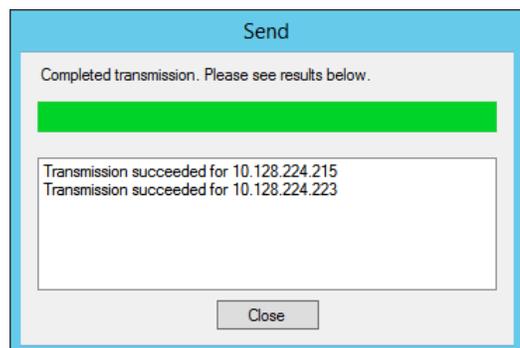
Settings can be transmitted to multiple MFPs using the Send dialog, launched from Send menu item.

- Click *Send > Send to Device*. In the Send dialog that appears, enter or import MFP address list.
- The MFP address list can be exported and saved in a text file for quick broadcast to a MFP fleet



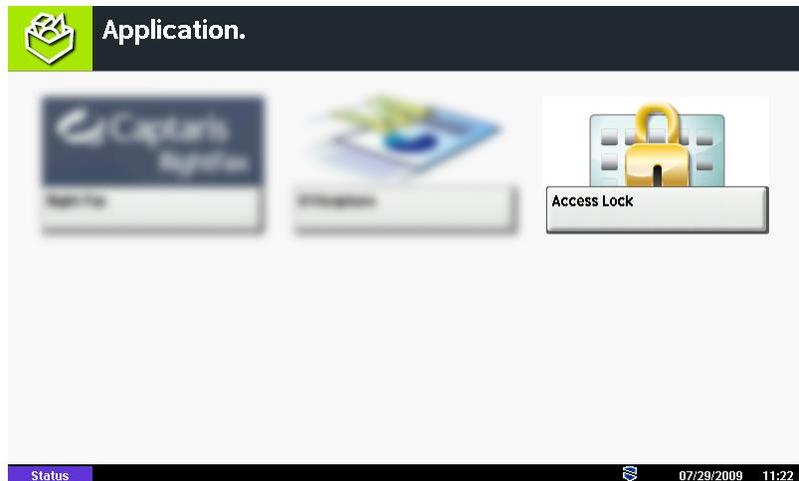
- Click OK button to begin transmission of the settings. A progress dialog will report result of transmission.
- After successful transmission, the new settings would take immediate effect.

*Note: MFP must have Access Lock application installed prior to configuration. Username and Password must be entered and must match local user account on MFP with administrator privileges.*

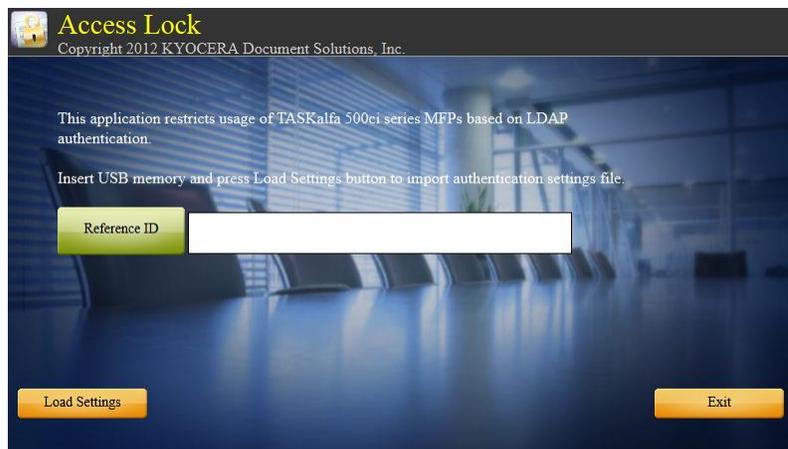


### Installing settings with USB flash drive

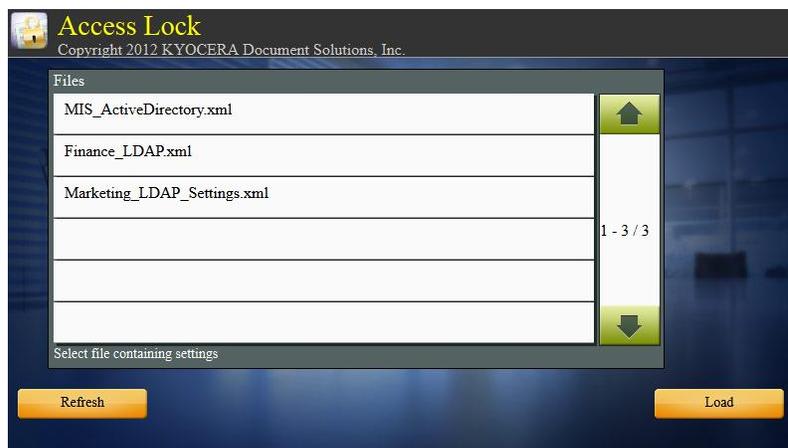
1. Save the settings to an XML file using the *File > Save As* menu item.
2. Copy the settings XML file to the root of a USB flash drive.
3. Login to the MFP with administrative access (default: Admin, Admin – note the capital A)
4. Switch to Application screen by pressing the *Application* button on the panel. Press *Access Lock* application button



5. Press *Load Settings* button on the bottom-left corner of the screen
6. Insert USB flash drive and wait for a minute. If the MFP displays a dialog box with the message "Removable memory is recognized. Displaying files. Are you sure?", press No.



7. Press *Refresh* button on the bottom-left corner of the screen. Now the list of files on the drive will be displayed:
8. Select one file and Press the *Load* button on the bottom-right corner of the screen.

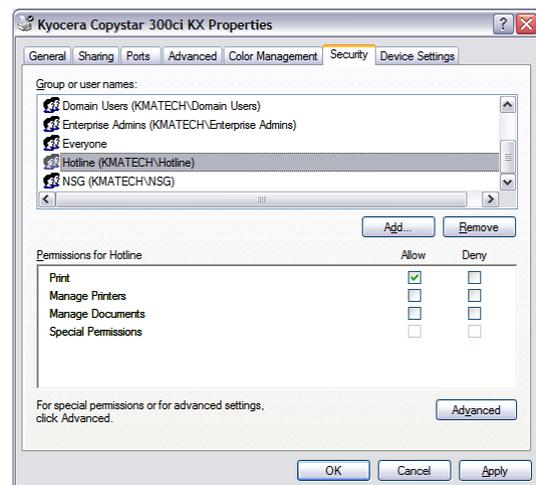


9. MFP panel will display “Access Lock: Settings Loaded OK”. Press the Exit button and then the Logout button for settings to take immediate effect.



#### Step 4. Setup Print Authorization

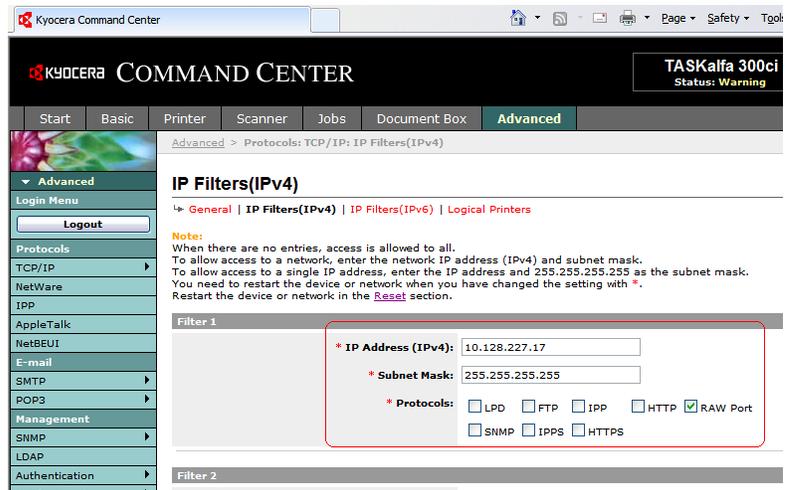
Printing from PCs is restricted using Microsoft Windows Sharing and Security settings. User groups can be allowed or denied printing privilege from within the Security tab in each printer's properties.



To prevent color prints, set printing preferences on the print queue to *Black & White* printing. Two queues can be setup for each MFP, one queue setup to allow color prints, while the other is set to *Black & White* only.



To prevent peer-to-peer printing and channel all printing through the print server, setup IP filter on the MFP. This would allow only jobs originating from the print server to be printed.



Kyocera Command Center

KYOCERA COMMAND CENTER

TASKalfa 300ci  
Status: Warning

Start Basic Printer Scanner Jobs Document Box **Advanced**

Advanced > Protocols: TCP/IP: IP Filters(IPv4)

### IP Filters(IPv4)

General | **IP Filters(IPv4)** | IP Filters(IPv6) | Logical Printers

**Note:**  
When there are no entries, access is allowed to all.  
To allow access to a network, enter the network IP address (IPv4) and subnet mask.  
To allow access to a single IP address, enter the IP address and 255.255.255.255 as the subnet mask.  
You need to restart the device or network when you have changed the setting with \*.  
Restart the device or network in the [Reset](#) section.

**Filter 1**

\* IP Address (IPv4): 10.128.227.17

\* Subnet Mask: 255.255.255.255

\* Protocols:  LPD  FTP  IPP  HTTP  RAW Port  
 SNMP  IPPS  HTTPS

**Filter 2**



## Step 5. Configuring Card Authentication

Network connected card readers from RFideas are supported for authentication. The following sections explain how to setup and configure card readers. When user swipes card at the reader, the card ID is transmitted to the MFP. The MFP then authenticates the user against LDAP.

Card ID (and optionally, PIN, for two-factor authentication) must be stored in user's LDAP attributes. For Microsoft Active Directory, use the *Active Directory Users and Computers* administrative tool to set user's attribute.

In the following example, the user's card ID is stored in Notes field, and PIN number is stored in Zip/Postal Code field. The LDAP attribute names for Notes and Zip fields are *info* and *postalCode* respectively. These must be entered in the settings utility as shown. PIN number attribute is required only if two-factor authentication is enabled. For a complete list of LDAP attribute names corresponding to active directory's fields, refer to Microsoft documentation.

The image shows two screenshots of the 'Tim O'Brien Properties' dialog box. The left screenshot shows the 'Telephones' tab with a callout pointing to the 'Notes' field containing '05223', labeled 'Card ID'. The right screenshot shows the 'Address' tab with a callout pointing to the 'Zip/Postal Code' field containing '07004', labeled 'PIN'.

The image shows the 'Access Lock Settings' dialog box. The 'Card Swipe Authentication' section is expanded, showing a table with settings for Enable, Card ID Attribute, PIN attribute, and Two-Factor Authentication. A callout points to the 'Card ID Attribute' field containing 'info', labeled 'Attribute Names'.

Setting	Value
Enable	Yes
Card ID Attribute	info
PIN attribute	postalCode
Two-Factor Authentication	No

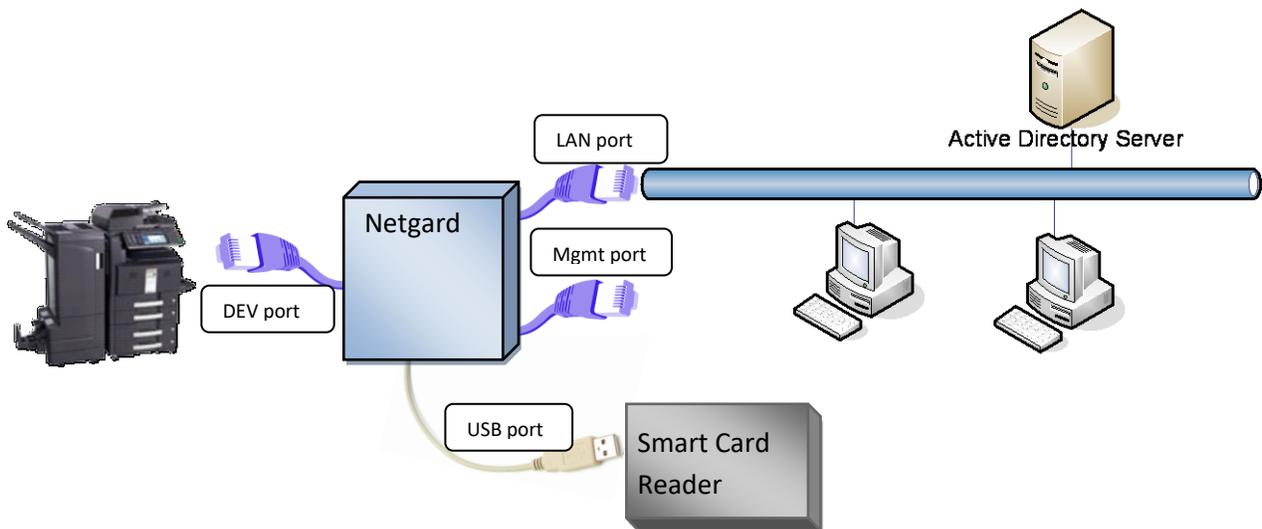


## Appendix

### Setting up Cryptek Netgard for CAC/PIV authentication

#### Network Configuration

The Netgard device is placed in-between the MFP and the LAN. It acts as an ON-OFF switch, connecting or disconnecting the MFP from the LAN. When a user authenticates successfully using a CAC/PIV card, the Netgard connects the MFP to the LAN, allowing it to access network resources including shared folders and email servers.



- Dev Port: Connects Netgard to MFP.
  - Default network address of netgard on this port: 192.168.10.1.
  - MFP must be set up to use a static IP address of 192.168.10.30.
- LAN Port: Connects Netgard to LAN
  - Netgard address on this port is configured with DHCP or static IP compatible with the LAN.
- Mgmt Port: Management port, used to connect laptop directly to Netgard for configuration purposes.
  - Default network address of netgard on this port: 192.168.20.1
- USB Port: Smart card reader is connected to the Netgard

## Netgard Setup and Configuration

- To configure the Netgard, open a browser to [https://<netgard\\_ip>:8080/](https://<netgard_ip>:8080/).
- Login with management username and password (by default, username=admin and password=password).
- Refer to Netgard Administration Guide for details on how to do basic setup and configuration.



## Netgard MFD

### Configuration Manager

#### Login

User Name:

Password:

Login

Reset

#### HELP

#### MORE»

#### Login Welcome to the API Cryptek Netgard MFD

The login page authenticates users and ensures that only authorized users can view or modify this device's settings.

## Configuring Netgard for Access Lock

### 1. Configure Networking Settings

- Open Network → Configuration
- Configure Device IP section as shown in the screen shot below.
  - Setup MFP to use a static IP address (192.168.10.30)
- Configure LAN IP settings to suit the network environment.

The screenshot displays the configuration page for a Netgard MFD. The interface includes a navigation menu with options like NETWORK, SCAN SETUP, ADMIN, MONITORING, and SUPPORT. The current page is 'Configuration' under 'Network >> Configuration'. The 'Device IP Settings' section contains fields for Netgard IP Address (192.168.10.1), Subnet Mask (255.255.255.0), and Copier IP Address (192.168.10.30). A red callout box points to the Copier IP Address field with the text 'Must match static IP Address set on the MFP'. The 'LAN IP Settings' section includes options for DHCP, Static IP Address (10.128.224.215), Subnet Mask (255.255.252.0), Gateway (10.128.224.1), and DNS Servers. The 'IP Version' section shows the current version as IPv4 and a dropdown menu set to IPv6. The 'Management Port IP Settings' section shows IP Address (192.168.20.1) and Subnet Mask (255.255.255.0). At the bottom, there are 'Apply' and 'Reset' buttons.

**cryptek™** **Netgard MFD**

Configuration :: Advanced Configuration :: Routing :: IPv4 - IPv6 Translation Logout

**Network >> Configuration** **Related Links**

**Device IP Settings**

Netgard IP Address:

Subnet Mask:

Copier IP Address:  Must match static IP Address set on the MFP

**LAN IP Settings**

Enable DHCP client?  Yes  No

Static IP Address:

Subnet Mask:

Gateway:

Primary DNS Server:

Secondary DNS Server:

**IP Version**

Current IP Version: IPv4

Change IP Version To:

**Management Port IP Settings**

IP Address:

Subnet Mask:

...ration page for Netgard MFD. Netgard MFD requires the settings on this page to be set appropriately in order to configure this device in-line between the multifunction device (i.e. printer/scanner) and the office LAN network.

**Device IP Settings**  
**Netgard IP Address:** This is the device-side LAN IP address and is required to allow the device to communicate with Netgard MFD. The default is 192.168.10.1.

MORE >>

## 2. Setup CAC settings

- Open Scan Setup → CAC Settings
- Select Yes to 'Use MFP LCD for PIN Entry'.
- Select Yes to 'Encrypt Data to/from MFP'.
- Enter 37151 for 'Listen to MFP on Port Number'.

The screenshot shows the Cryptek Netgard MFD web interface. The top navigation bar includes NETWORK, SCAN SETUP (selected), ADMIN, MONITORING, and SUPPORT. The breadcrumb trail is Scan to Network :: Authentication :: Certificates :: CAC Settings. The main content area is titled 'Scan Setup » CAC Settings' and contains the following settings:

- CAC Settings**
  - CAC Login Timeout: 60 Minutes
- Integration with Kyocera MFP**
  - Use MFP LCD Panel for PIN Entry:  Yes  No
  - Encrypt Data to/from MFP:  Yes  No
  - Listen to MFP on Port Number:  (Default: 37151)

At the bottom of the settings section are 'Apply' and 'Reset' buttons. A red box highlights the 'Listen to MFP on Port Number' field, with an arrow pointing to a text box that reads: 'Must match port number in Access Lock configuration section'. The right sidebar contains 'Related Links' (Netgard MFD Status, Netgard MFD Statistics) and a 'HELP' section with a 'MORE»' link.

### 3. Setup LDAP Authentication

*NOTE: This step is required only if Look-up LDAP option is enabled in access lock configuration.*

- Open Scan Setup → Authentication
- Enable 'LDAP Authentication'
- Enter Active Directory domain controller address for LDAP Server IP
- Set LDAP Server Port to the default value of 389.
- Enter a user account in UPN format (as shown below) and provide a password.
- Enter the LDAP search base suffix. User accounts contained in this LDAP tree can login.
- Set LDAP Search String to '%F %L' and select 'name' for User ID options (as shown below).

**cryptek™** **Netgard MFD**

NETWORK **SCAN SETUP** ADMIN MONITORING SUPPORT

Scan to Network :: Authentication :: Certificates :: CAC Settings Logout

**Scan Setup » Authentication**

**Settings**

Enable X.509 Authentication?

Enable OCSP Check?

OCSP Server URL:

Enable LDAP Authentication?

Enable SSL for LDAP ?

LDAP Server IP:

LDAP Server Port:   
Default: 389

Username for LDAP Query:  Must be specified in UPN format:  
user@domain

Password for LDAP Query:

LDAP Search Base (Suffix):

LDAP Search String:   
Name: %F %M %L Email: %E EDI-PI: %e

User ID Options:  ▼

Enable Kerberos Authentication?

KDC Server IP:

KDC Server Port:   
Default: 88

KDC Realm:

User Principal:  ▼

**Related Links**

[Netgard MFD Status](#)  
[Netgard MFD Statistics](#)

**HELP** **MORE»**

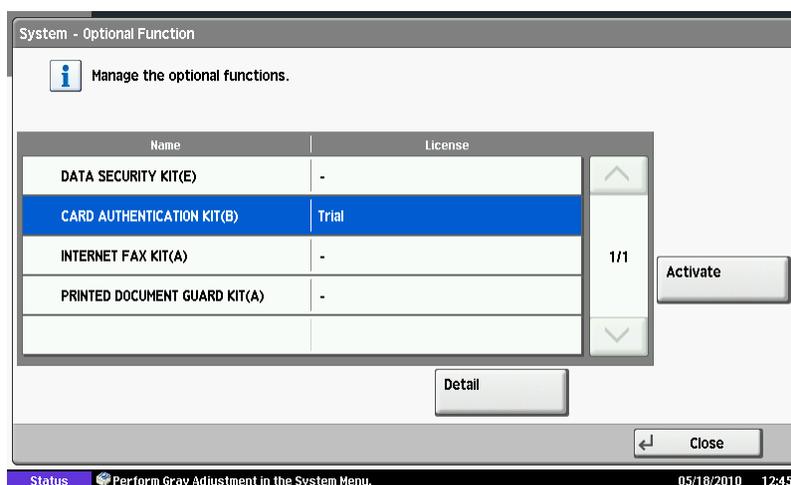
**Scan Setup Authentication**  
The network details of the authentication process used by Netgard MFD are configured here. Netgard MFD can use LDAP, Kerberos or OCSP authentication, as required by the user.

## Setting up Proximity Card Reader (USB connected)

To utilize USB-connected card readers for authentication, Card Authentication Kit must be purchased from Kyocera for each MFP. The kit includes a card reader and software license to activate the card reader. Please contact your Kyocera dealer to obtain pricing, availability and compatibility information.

To activate Card Authentication Kit (B):

1. Open System Menu → System → Optional Function
2. Select Card Authentication Kit (B) and press the Activate button
3. If you have an activation code, enter it using the keypad, otherwise press the 'Trial' button to start a trial period. Card Authentication Kit (B) can be used in trial mode. Two 30-day trial periods will be available.



At the time of this writing, the following card types are supported. For compatibility information on other card types not listed below, please contact your Kyocera dealer.

Type of card
HID
Mifare
HID iClass

## Setting up Proximity card reader (Network connected)

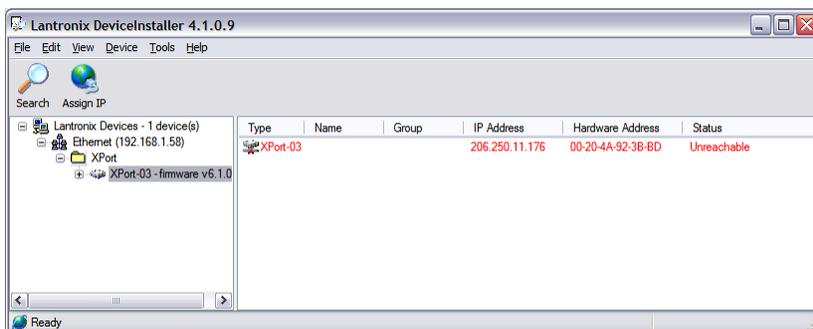
This section describes how to setup RFIdeas® PcProx network connected HID card reader to work with Kyocera MFPs. Please refer to RFIdeas® web site for details on purchasing compatible card readers.

*NOTE: USB-connected card readers are not supported now.*

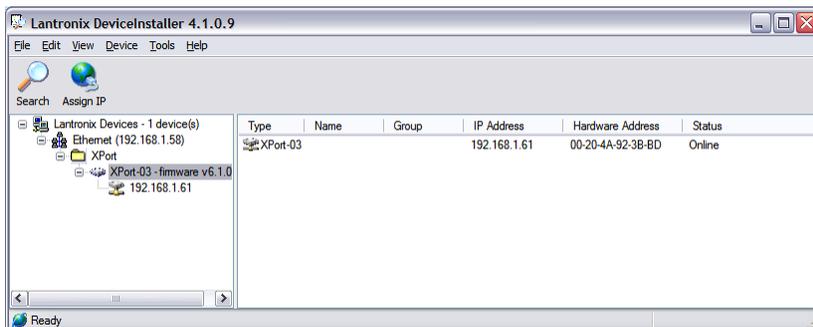
### RFIdeas network connected HID card reader

Lantronix DeviceInstaller software can be obtained from RFIdeas website. This software helps locate and configure network connected card readers.

Open Lantronix DeviceInstaller software by clicking on Start → All Programs → Lantronix → Device Installer.

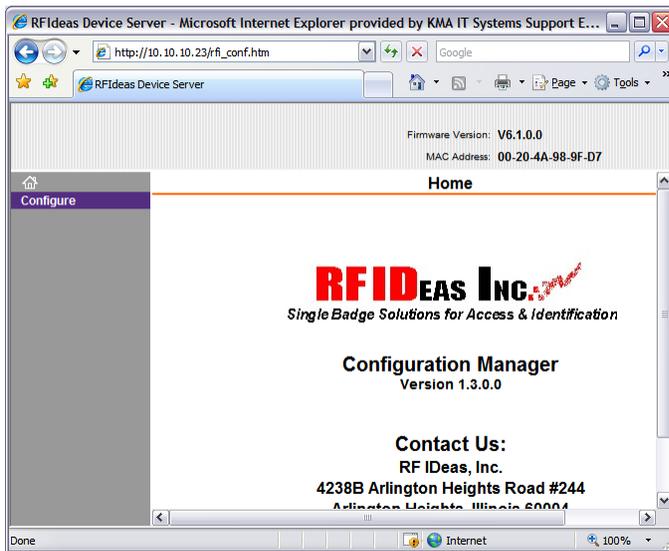


This utility will discover card readers connected to the network and display them in a tree-view as shown above. Select the device and click Assign IP button on the toolbar. This would bring up the Assign IP Address wizard. Follow the instructions in the wizard to configure DHCP or static IP address for the card reader.



After the device has been assigned a valid IP address, check values for Default Gateway and Subnet mask to ensure correctness. Open the card reader's web page in Internet Explorer by entering the

devices' IP address.



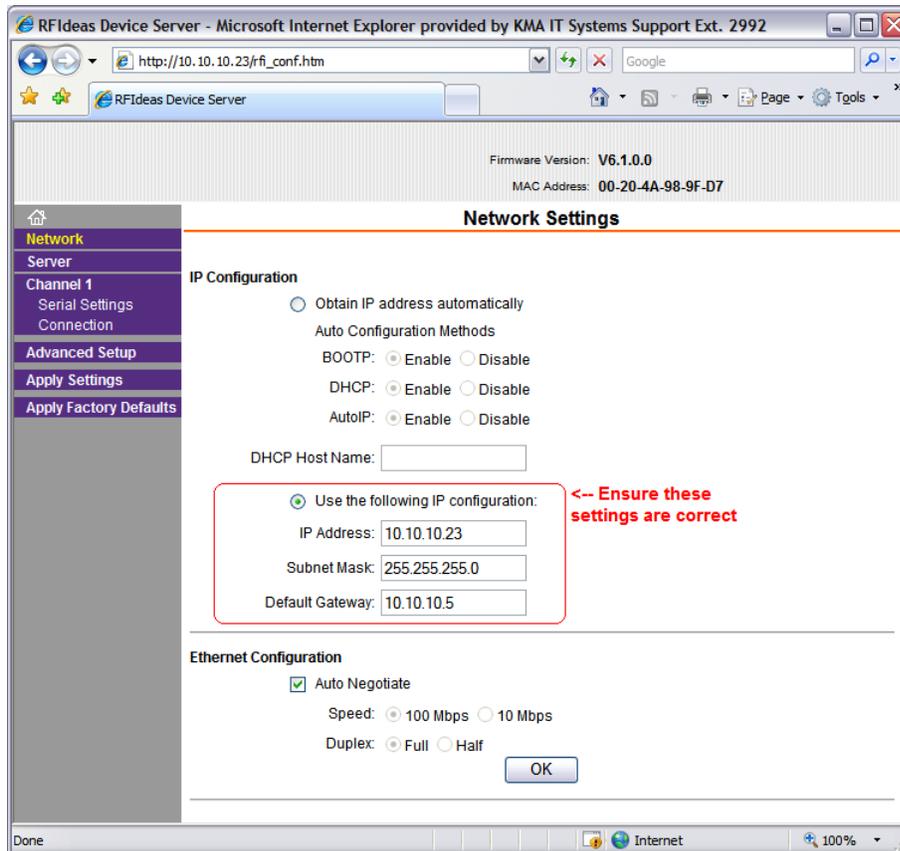
Click on the Configure link on the left of the page and when prompted for username and password, simply click OK, leaving the fields blank.



Configure each setting on the web page as shown below. In each page, after making the changes, click the OK button at the bottom. After all pages are configured, click the Apply Settings link to save changes and restart the card reader.

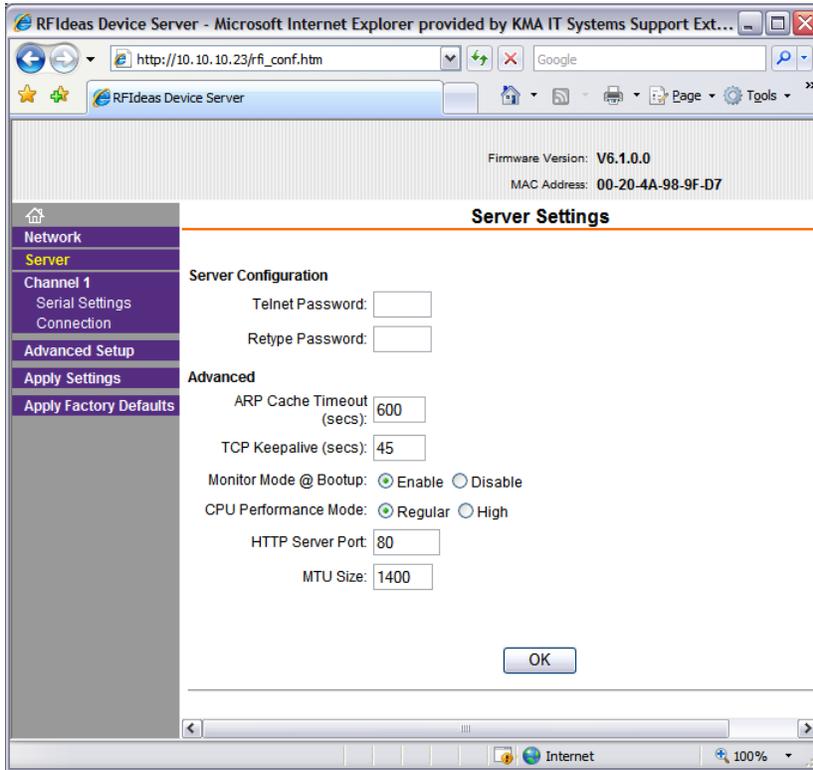
## Network Setting

Click on *Network* link and ensure the *IP Address*, *Subnet Mask* and *Default Gateway* for the card reader are entered correctly.



## Server Settings

Click on the *Server* link and ensure the settings match values shown below.



The screenshot shows a web browser window titled "RFIdeas Device Server - Microsoft Internet Explorer provided by KMA IT Systems Support Ext...". The address bar shows "http://10.10.10.23/rfi\_conf.htm". The page content includes:

- Firmware Version: V6.1.0.0
- MAC Address: 00-20-4A-98-9F-D7
- Server Settings**
- Server Configuration**
  - Telnet Password:
  - Retype Password:
- Advanced**
  - ARP Cache Timeout (secs):
  - TCP Keepalive (secs):
  - Monitor Mode @ Bootup:  Enable  Disable
  - CPU Performance Mode:  Regular  High
  - HTTP Server Port:
  - MTU Size:
- OK button

The browser's taskbar shows "Internet" and "100%" zoom level.

## Channel 1: Serial Settings

Click on *Serial Settings* and ensure the settings match those shown below.

The screenshot shows the web interface for the RFIdeas Device Server. The browser window title is "RFIdeas Device Server - Microsoft Internet Explorer provided by KMA IT Systems Support Ext. 2992". The address bar shows "http://10.10.10.23/rfi\_conf.htm". The page displays the following information:

- Firmware Version: V6.1.0.0
- MAC Address: 00-20-4A-98-9F-D7

### Serial Settings

Disable Serial Port

#### Channel 1

#### Port Settings

Protocol: RS232      Flow Control: None  
Baud Rate: 9600      Data Bits: 8      Parity: None      Stop Bits: 1

#### Pack Control

Enable Packing  
Idle Gap Time: 12 msec  
Match 2 Byte Sequence:  Yes  No      Send Frame Only:  Yes  No  
Match Bytes: 0x00 0x00 (Hex)      Send Trailing Bytes:  None  One  Two

#### Flush Mode

<b>Flush Input Buffer</b>	<b>Flush Output Buffer</b>
With Active Connect: <input type="radio"/> Yes <input checked="" type="radio"/> No	With Active Connect: <input type="radio"/> Yes <input checked="" type="radio"/> No
With Passive Connect: <input type="radio"/> Yes <input checked="" type="radio"/> No	With Passive Connect: <input type="radio"/> Yes <input checked="" type="radio"/> No
At Time of Disconnect: <input type="radio"/> Yes <input checked="" type="radio"/> No	At Time of Disconnect: <input type="radio"/> Yes <input checked="" type="radio"/> No

OK

## Channel 1: Connection

Click on the *Connection* link and enter the MFP's IP address for *Remote Host* and 38000 for *Remote Port*.

RFIdeas Device Server - Microsoft Internet Explorer provided by KMA IT Systems Support Ext. 2992

http://10.10.10.23/ffi\_conf.htm

RFIdeas Device Server

Firmware Version: V6.1.0.0  
MAC Address: 00-20-4A-98-9F-D7

### Connection Settings

**Channel 1**

**Connect Protocol**  
Protocol: TCP

**Connect Mode**

**Passive Connection:**  
Accept Incoming: Yes  
Password Required:  Yes  No  
Password:

**Active Connection:**  
Active Connect: With Any Character  
Start Character: 0x00 (in Hex)  
Modem Mode: None  
Mdm Esc Seq Pass Thru:  Yes  No

**Endpoint Configuration:**  
Local Port: 10001  Auto increment for active connect  
Remote Port: 38000 Remote Host: 10.10.10.225

**Common Options:**  
Telnet Mode: Disable Connect Response: None  
Terminal Name:  Use Hostlist:  Yes  No LED: Blink

**Disconnect Mode**  
On Mdm\_Ctrl\_In Drop:  Yes  No Hard Disconnect:  Yes  No  
Check EOT(Ctrl-D):  Yes  No Inactivity Timeout: 0 : 0 (mins : secs)

OK

Done

Internet 100%

**<- Enter IP address of MFP for Remote Host. Enter 38000 for Remote port**

Click the OK button and then click the *Apply Settings* link to save settings changes to the card reader.

