



HP SmartCard NIPRNet Solution  
for US Government  
using non-FutureSmart firmware version

Administrator's Guide



# HP SmartCard NIPRNet Solution for US Government using non-FutureSmart firmware version

Administrator's Configuration Guide

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# 1 Introduction

The HP SmartCard NIPRNet Solution for US Government is designed to optimize security in imaging and printing environments for various Department of Defense (DoD) agencies and military branches of the US government.

This guide is intended for administrators responsible for managing security in their network environment and provides instructions on how to configure settings on supported HP products with a non-FutureSmart firmware version using the HP SmartCard NIPRNet Solution for US Government.

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## 2 Getting started with HP SmartCard NIPRNet Solution for US Government

Get started by installing the HP SmartCard NIPRNet Solution for US Government on supported printers and updating the printer firmware, if required. This chapter provides information on the following topics:

- [Supported Products](#)
- [Hardware installation](#)
- [Obtain the tools for HP SmartCard NIPRNet Solution](#)

### Supported Products

For a list of HP printers compatible with the HP SmartCard NIPRNet Solution for US Government, see [Supported products](#).(c04896573)

### Hardware installation

To configure the HP SmartCard NIPRNet Solution, purchase the “HP SmartCard US Govt NIPRNet Solution: CC543B #201”.

For the HP Smartcard NIPRNet Solution installation instructions, go to the: [Installation Guide](#).

### Obtain the tools for HP SmartCard NIPRNet Solution

The HPRC File Transfer Service (<https://ftp.usa.hp.com/hprc>) provides the firmware files, the Authentication Agent files, and the configuration information required to configure HP Multifunction Printers (MFPs). This site is periodically updated to identify the most current files required to install and configure the HP SmartCard NIPRNet Solution for US Government .



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**NOTE:** Make sure to install the latest firmware and Authentication Agent files.

Follow these steps to download the tools required for the HP SmartCard NIPRNet Solution:

1. Go to [HPRC File Transfer Service](#).
2. Read the **HPRC Terms of Use & Service**, and then click **Accept**.
3. Type in your Account name and password, and then click **Login**.



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**NOTE:** Passwords must be changed annually to the next consecutive number.

4. Click the **LATEST\_Firmware** directory, and then click the `Oz_olderdevice_firmware` directory.
5. Download the following files and then save them in one folder:

- Latest firmware file for your printer model

OR

Go to [HP Support](#), and then select **Software and Drivers**.

For instructions to download or update the firmware, go to [Update the firmware using a USB flash drive or the Embedded Web Server \(EWS\)](#).

- Auth\_agent file (usgovt\_auth\_agent\_cac\_v2.11.pjl or newer)
- remove\_cac\_agent file (remove\_cacagent.pjl)
- FW update vbscript (FW\_Update\_14.2\_FTP.vbs or the latest FW\_Update file)

When using File Transfer Protocol (FTP), the firmware update wizards automate the process of rebooting the firmware, authagent, and removing the cac agent.



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**NOTE:** If you cannot use FTP to upload the files to the HP printer, use Port Number “9100” to upload the files.

Select the **FW\_Update\_Port\_9100** directory and save the following files in the same folder — the firmware file, auth agent, remove agent, hnpnf, and the fw update vbscript.

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You can also use HP Web Jet Admin to update the firmware and upload the auth agent .pjl file.

6. Click the **Tools** directory.
7. Select one of the following files, and then click **Run** or **Save** to view the configuration information.
  - KerbosInfoCert2.exeOR
  - KerbosInfoCert2.vbs



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**NOTE:** Make sure to print this page to verify the Kerberos Client settings information when configuring the device.

---

8. Select the "CertificateChainBuilder.exe" file to export certificates, if desired.

If downloading the “CertificateChainBuilder” executable file, follow these steps on the **Certificate Chain builder** user interface:

- a. On the **Server** section, select one of the following options:

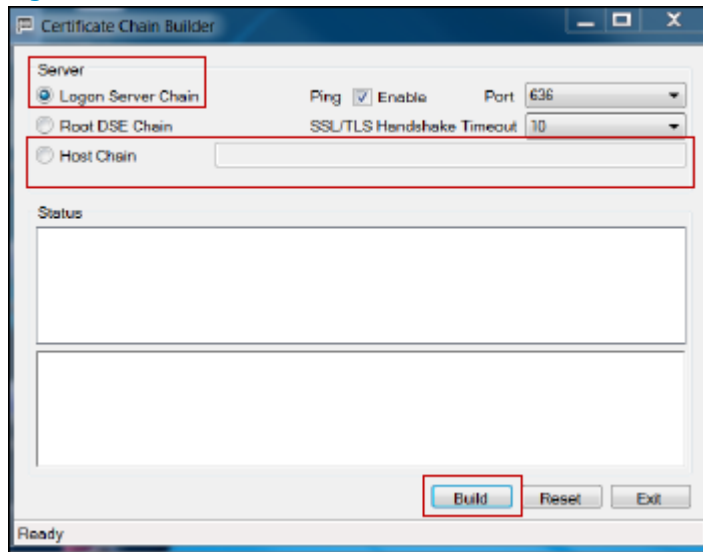
- Logon Server Chain
- Host Chain

Type your full FQDN in the **Host Chain** text box.



- b. Click **Build**.

**Figure 2-1** Certificate Chain Builder



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## 3 Configure the printer using the Embedded Web Server (EWS)

Preview the following requirements of the HP Smartcard NIPRNET Solution for configuring the HP printer:

- HP Smartcard reader is properly installed
- Connected to Auth Agent version 2.11 or newer
- Upgraded to firmware version 14.2 or newer.

This chapter provides instructions on the below topics:

- [Access the HP Embedded Web Server \(EWS\)](#)
- [Set the date and time on the HP device](#)
- [Verify the network settings](#)
- [Configure the HP product for Kerberos Authentication](#)
- [Configure validation of the certificates](#)
- [Configure authentication using the HP Smartcard reader](#)
- [Configure E-mail settings](#)

### Access the HP Embedded Web Server (EWS)

Follow these steps to open the EWS:

1. Open a Web browser, and in the address line, type the IP address of the printer exactly as it displays on the printer's control panel. Press the [Enter](#) key.



**NOTE:** If the Web browser displays a message indicating that accessing the website might not be safe, select the option to continue to the website. Accessing this website will not harm the computer.



**NOTE:** To prevent unauthorized changes in the printer configuration settings, IT administrators might set a password in the EWS.

2. Depending on how the HP EWS is configured, it might be necessary to log in using the administrator's password to access and configure printer settings.



**NOTE:** If passwords are set in the EWS, only the **Information tab** will be available to the users.

---

# Set the date and time on the HP device



**NOTE:** The device date and time must be synchronized to within five minutes of the date and time on the kerberos server. If the time difference is greater than five minutes, all HP Smartcard authentication attempts will fail.

1. Open the HP EWS.

For instructions, see [Access the HP Embedded Web Server \(EWS\) on page 5](#)

2. On the top navigation tabs, select the **Settings** tab.
3. In the left navigation pane, select **Date and Time**.
4. Type the **Current Date** and **Current Time**.

To set the time zone or daylight savings time, click **Advanced**, select the **Time Zone** and **Daylight Savings Time**, and then click **OK**.

**Figure 3-1** Date & Time Settings

The screenshot shows the HP EWS interface for Date & Time settings. The left sidebar lists various settings, with 'Date & Time' highlighted. The main panel has tabs for 'Information', 'Settings', 'Digital Sending', 'Fax', and 'Networking'. Under the 'Settings' tab, there are sections for 'Device Time', 'Advanced', and 'Network Time Server'. The 'Device Time' section includes fields for 'Current Date' (2018 / FEB / 11) and 'Current Time' (10 : 42 PM). Below this, it shows 'Current time zone: GMT Standard Time' and an 'Advanced' button. The 'Network Time Server' section has a checkbox for 'Automatically synchronize with a Network Time Server' which is checked, and an 'NTS Settings' button. At the bottom right, there are 'Apply' and 'Cancel' buttons.

5. Click **Apply** to save the changes.

# Verify the network settings

Use the following information to verify the HP device's TCP/IP network information.

1. Open a Web browser.

For instructions, see [Access the HP Embedded Web Server \(EWS\) on page 5](#)


2. On the top navigation tabs, select the **Networking** tab.
3. In the left navigation pane, select **TCP/IP Settings**, and then select the **Network Identification** tab.

The screenshot shows the HP Embedded Web Server (EWS) interface for TCP/IP Settings. The top navigation bar includes tabs for Information, Settings, Digital Sending, Fax, and Networking. The left navigation pane shows Configuration, TCP/IP Settings (selected), Network Settings, Other Settings, Security, Settings, Authorization, Mgmt. Protocols, 802.1X Authentication, IPsec/Firewall, Announcement Agent, Diagnostics, Network Statistics, Protocol Info, and Configuration Page. The main content area is titled 'TCP/IP Settings' and has sub-tabs for Summary, Network Identification (selected), TCP/IP(v4), TCP/IP(v6), Config Precedence, and Advanced. The Network Identification tab contains the following fields and sections:

- Host Name:** NP920D32
- Domain Name (IPv4/IPv6):** boi.rd.hpcorp.net
- Domain Name (IPv6 only):** (empty)
- Enabled Features:**
  - DNS (IPv4):** Primary: 16.110.135.51, Secondary: 16.110.135.52
  - DNS (IPv6):** Primary: (empty), Secondary: (empty)
  - Enable DDNS
- TCP/IP Domain Suffix:**
  - DNS Suffixes:** Lrd.hpcorp.net (with a Delete button)
  - (with an Add button)
- WINS (IPv4 only):** Primary: (empty), Secondary: (empty)
- Bonjour:** Bonjour Service Name: HP Color LaserJet CM3530 MFP [920D32], Bonjour Domain Name: NP920D32.local

4. Verify that the **Host Name** and **Domain Name (IPv4/IPv6)** are properly set.
5. Verify that the **DNS Primary** and **DNS Secondary** are correctly set.
6. If required, type additional DNS suffixes in the **DNS Suffixes** text box of the **TCP/IP Domain Suffix** section.
7. If applicable, type the WINS **Primary** and **Secondary** addresses in the **WINS (IPv4 only)** section.
8. Click **Apply** at the bottom of the page to save any changes.

# Configure the HP product for Kerberos Authentication

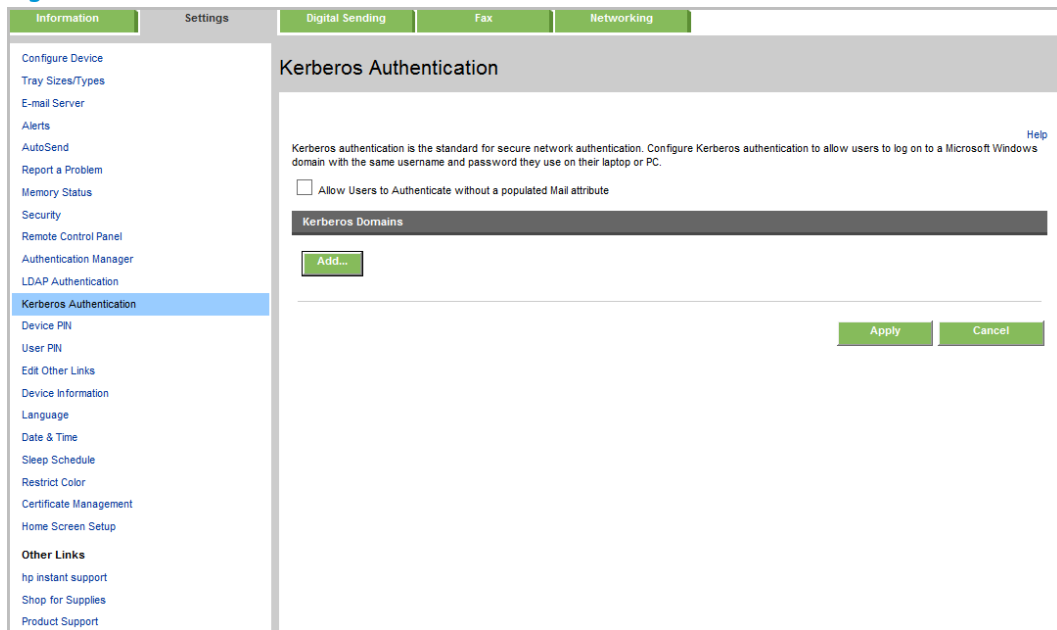
 **NOTE:** Make sure to configure and test the Kerberos settings when the HP Smartcard reader is installed for the first time.

1. Open a Web browser.

For instructions, see [Access the HP Embedded Web Server \(EWS\) on page 5](#)

2. On the top navigation tabs, select the **Settings** tab.
3. On the left navigation pane, select the **Kerberos Authentication** tab.


**Figure 3-2** Kerberos Authentication



4. On the **Kerberos Authentication** page, click **Add**, and then complete the following steps to set parameters and credentials used to access the LDAP server:
  - a. In the **Accessing the Kerberos Authentication Server** section, type the Kerberos domain name, OR click **Advanced** to access **Alternate Domain Configuration**.

 **NOTE:** Most US Government agencies disable the reverse DNS lookups option.

- **Kerberos Realm:** Type the Kerberos domain in upper case.
- **Kerberos Server Hostname:** Type the fully qualified domain name of the Kerberos realm.

 **NOTE:** The Kerberos Server Hostname might be the same as the Kerberos Realm if a Domain Name Service (DNS) is available and configured correctly. If a DNS is not available, use the IP address of the Kerberos Server.

- **Kerberos Server Port:** The default port is 88.



**NOTE:** The default port might be different in different network environments. Contact your IT administrator to determine the appropriate port.

b. In the **Accessing the LDAP Server** section, complete the following information to access the LDAP server.

- i. Select **Kerberos** or **Kerberos over SSL** from the **LDAP Server Bind Method** drop-down box.
- ii. In the **Credentials** section, make sure that the **Use Device User's Credentials** option is selected.
- iii. In the **LDAP Server** text box, type the server hostname.

The **LDAP Server** is usually the same as the Kerberos Server in the Windows Active Directory Environment.

iv. In the Port text box, type the port used by the LDAP protocol to communicate with the LDAP server.

The port number is usually 389 or 636 or 3268 or 3269.

c. In the **Searching the LDAP Database** section, type the Search Root.

The Search Root is the distinguished name of the entry in the LDAP directory to search for addresses.

d. Click **PKINIT Settings**.

**Figure 3-3** Kerberos Authentication setting

5. On the **PKINIT Settings** page, install the required certificates.

a. In the **Using PKINIT Authentication (Smart Card Authentication Only)** section, click **Edit**.

- b. On the **Certificates** page, click **Browse**, locate the certificate, click **Import**, and then click **Back**. Click **Apply** on the **PKINIT Settings** page.

**Figure 3-4** PKINIT Settings

**PKINIT Settings**

Accessing the Kerberos Authentication Server [Help](#)

Kerberos Realm (Domain):

Kerberos Server Hostname:

Kerberos Server Port:

Using PKINIT Authentication (Smart Card Authentication Only)

Public Key Cryptography for Initial Authentication in Kerberos (PKINIT) is supported on this device when the user has a smart card with a public and private key, and the device is equipped with the HP MFP Smart Card Reader.

**Kerberos Server Root Certificate Authority (CA) Certificate**

To establish trust between the device and the Kerberos Server, the certificate from the CA, which issued the Kerberos Server certificate must be installed on the device.

Status: Not Installed [Edit...](#)

**Signed E-mail Certificate Chains**

To ensure that recipients of signed e-mails sent from this device can trust the associated digital signature, please install any intermediate and root CA certificates in your organizations e-mail certificate trust chain.

Status: Not Installed [Edit...](#)

**OCSP Validation of Kerberos Server Certificate**

Online Certificate Status Protocol (OCSP) can be used to verify that the Kerberos Server Certificate is a valid certificate and has not been revoked. If you are not using OCSP to validate, then you may be using an insecure Kerberos Server. In order to trust responses from the specified OCSP server(s), the OCSP server certificate(s) need to be installed on the device. Separate multiple URLs with a comma character ','.

Perform OCSP Validation on the Kerberos Server certificate chain

OCSP URL(s)


Treat "Unknown" certificate status as valid

Include nonce in request

**OCSP Server Certificate(s)**

Status: Not Installed [Edit...](#)

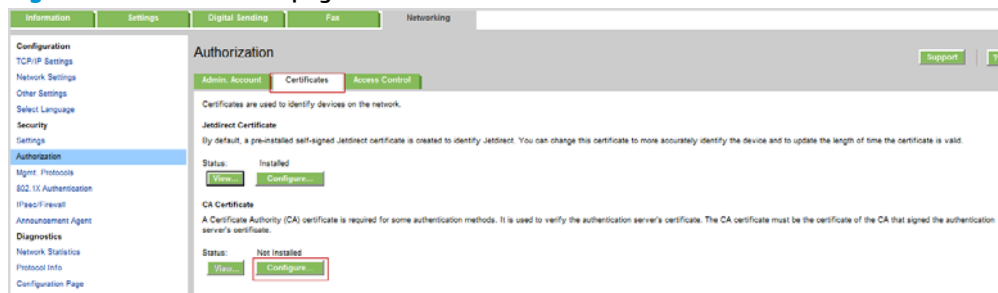
# Configure validation of the certificates

 **NOTE:** Before configuring the certificate, make sure that your site uses Kerberos over SSL to install the Root CA Certificate.

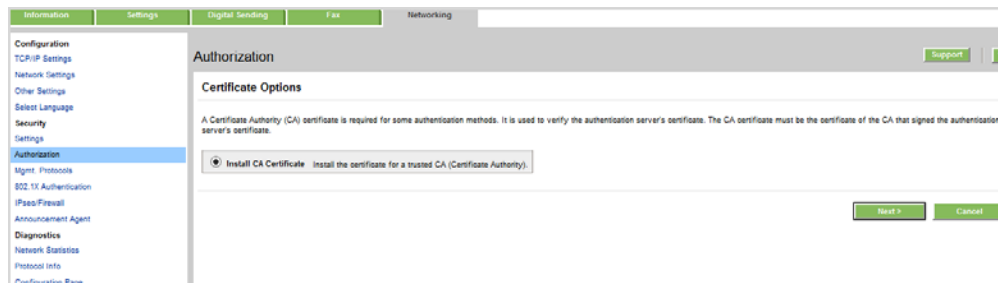
Follow these steps to install certificates on the **Certificates** page of the HP Embedded Web Server (EWS).

1. Open a Web browser.  
For instructions, see [Access the HP Embedded Web Server \(EWS\) on page 5](#).
2. On the top navigation tabs, select the **Networking** tab.
3. On the left navigation pane, select **Authorization**.
4. Select the **Certificates** tab, and then in the **CA Certificate** section click **Configure**.

**Figure 3-5** Authorization page in the EWS

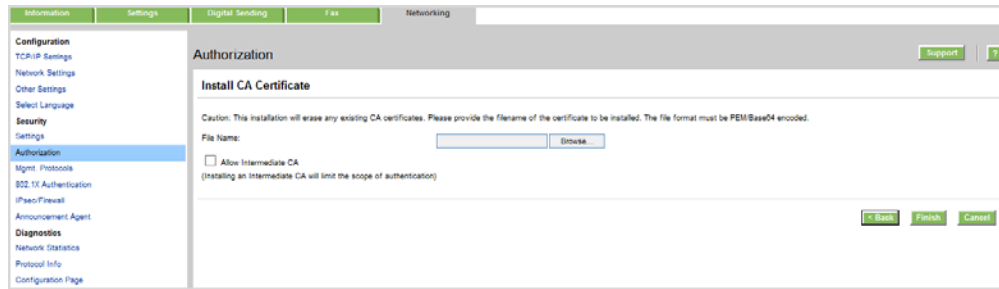


5. In the **Certificate Options** page, make sure that the **Install CA Certificate** option is enabled, and then click **Next**.




6. In the **Install CA certificates** page, complete the following steps to install the certificate:
  - a. Click **Browse**





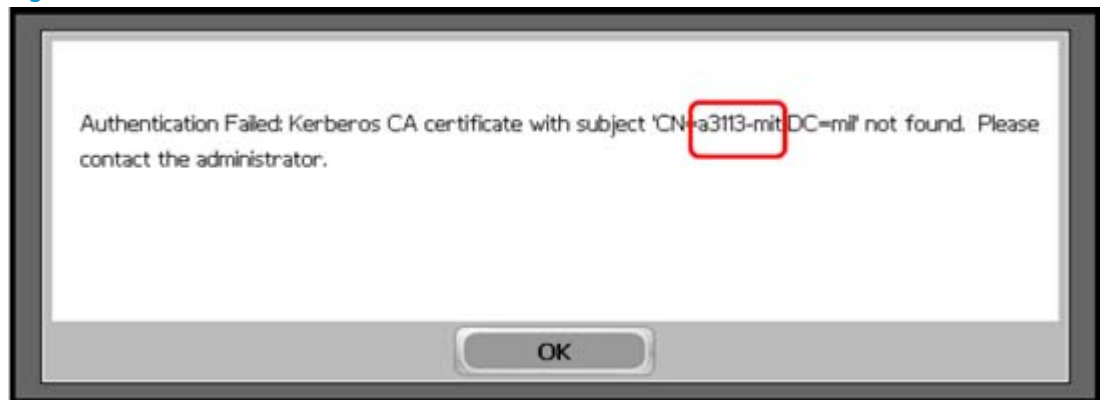
- b. Select the Base-64 encoded certificate file, and then click **Finish**.

 **NOTE:** This certificate is used for Kerberos Root CA

- c. Make sure that the certificate is installed.

If the certificate is not correctly installed, an error message displays indicating the required missing certificate.

**Figure 3-6** Authentication Failed



# Configure authentication using the HP Smartcard reader

Follow these steps to configure the settings for the HP Smartcard reader:

1. Open a Web browser.

For instructions, see [Access the HP Embedded Web Server \(EWS\) on page 5](#)

2. On the top navigation tabs, select the **Settings** tab.
3. On the left navigation pane, select **Authentication Manager**.
4. On the **Device Functions** section, select “US Gov't Smartcard v2.11” or newer in the **Sign In Method** column.
5. Click **Apply**.

**Figure 3-7** Authentication Manager

The screenshot displays the HP Authentication Manager web interface. On the left is a navigation menu with categories like Information, Settings, Digital Sending, Fax, and Networking. Under Settings, 'Authentication Manager' is highlighted. The main content area has a title bar 'Authentication Manager' and a sub-header 'Sign In Method'. An attention message states: 'One or more Sign In Methods previously set below is no longer present on this device. Functions with this conflict will be inaccessible until a different Sign In Method is selected or the missing Sign In Method is reinstalled and set up correctly.' Below this is a table for 'Device Functions' with columns for the function name and its 'Sign In Method'. The 'US Gov't Smartcard v2.11' method is selected for the 'Copy' function. Other functions listed include Color Copy, Send to E-mail, Send Fax, Send to Folder, Edit Send to Folder Path, Job Storage, Create Stored Job, Digital Sending Service (DSS) Secondary E-mail, Digital Sending Service (DSS) Workflow, Administration, Simplex Copy, and Retrieve Stored Job. A 'Future Installations' section at the bottom shows a 'Newly Installed Functions' dropdown set to 'None'. 'Apply' and 'Cancel' buttons are at the bottom right.

Device Functions	Sign In Method
Copy	U.S. Gov't Smartcard v2.11
Color Copy	None
Send to E-mail	None
Send Fax	None
Send to Folder	None
Edit Send to Folder Path	None
Job Storage	None
Create Stored Job	None
Digital Sending Service (DSS) Secondary E-mail	None
Digital Sending Service (DSS) Workflow	None
Administration	None
Simplex Copy	None
Retrieve Stored Job	None
Secure Pull Print	Unknown / Removed

# Configure E-mail settings

Use the **Digital Send** tab of the EWS to configure the address book, e-mail, and network folder settings.

- [E-mail settings](#)
- [Address Book settings](#)
- [Configure Send to Folder settings](#)

## E-mail settings

Use the following steps to configure the **E-mail Setup**.

1. Open a Web browser.  
For instructions, see [Access the HP Embedded Web Server \(EWS\) on page 5](#).
2. On the top navigation tabs, select the **Digital Sending** tab.
3. On the left navigation pane, select **E-mail Settings**.
4. In the **SMTP Gateway Settings** section, type the SMTP gateway in the **Device's SMTP Gateway**.
5. In the **Default "From" Address**, make sure that an email address of the authenticated user displays in the **E-mail address** text box.
6. Click **Advanced**.

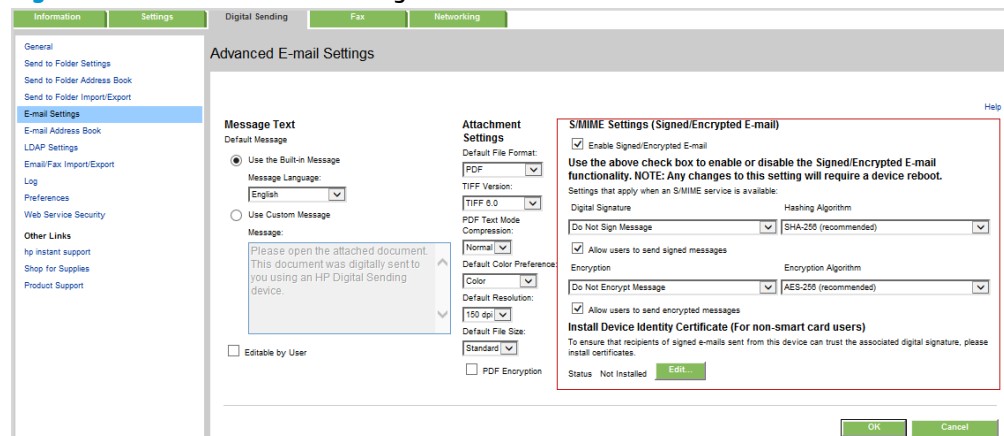
**Figure 3-8** E-mail Settings: SMTP Gateway Settings

The screenshot shows the 'E-mail Settings' page with the 'Digital Sending' tab selected. The left navigation pane highlights 'E-mail Settings'. The main content area is titled 'E-mail Settings' and contains two sections:

- SMTP Gateway Settings:**
  - Send e-mail...: directly from the device
  - Device's SMTP Gateway: 0.0.0.0
  - Port: 25
  - Maximum Attachment Size (MB): 0
  - Enable SSL Support for SMTP:
  - Enable SMTP Authentication:
  - Use Device User's Credentials:
  - Use Public Credentials:
  - Username: [text box]
  - Password: [text box]
  - Buttons: Find Gateways, Test
- Default: From: Address:**
  - E-mail address: [text box]
  - Display Name: [text box]
  - Prevent Device user from changing the Default From: Address:
  - Use Address Book entries only:
  - Default Subject: [text box]
  - Default File Name: [text box] Advanced...
  - Add timestamp to destination file names:
  - Users can only send e-mails to their own address:
  - Buttons: Apply, Cancel

7. On the **Advanced E-mail Settings** page, follow these steps to configure the **S/MIME Settings (Signed/Encrypted E-mail)**:
  - a. In the **Digital Signature** drop-down list, select **Sign Message**.
  - b. In the **Hashing Algorithm** drop-down list, select **SHA-1**.
  - c. In the **Encryption** drop-down list, make sure that the **Do Not Encrypt Message** is selected.
  - d. In the **Encryption Algorithm** drop-down list, select the appropriate algorithm for your environment.
  - e. Click **OK**.

**Figure 3-9** Advanced E-mail Settings



## Address Book settings


Use the following steps to configure the **Address Book** settings.

1. Open a Web browser.  
For instructions, see [Access the HP Embedded Web Server \(EWS\) on page 5](#)
2. On the top navigation tabs, select the **Digital Sending** tab.
3. On the left navigation pane, select **LDAP Settings**.
4. Select the **Allow Device to directly access an LDAP Address Book** check box.
5. In the Accessing the LDAP Server, complete the following steps:
  - a. In the **LDAP Server Bind Method** drop-down list, select **Kerberos over SSL**.
  - b. In the **Credentials** section, make sure that the **Use Device's User's Credentials** is selected.
  - c. In the **LDAP Server** text box, type the Kerberos server used in the Windows Active Directory Environment.

- d. In the **Port** text box, type the Port number.

**Figure 3-10** Address Settings: Accessing LDAP server

6. In the **Searching the Database** section, type the search root in the **Search Root** text box.

 **NOTE:** If required, type specific attributes, or use the default attributes displayed on the page.

7. Click **Apply**.

## Configure Send to Folder settings

Use the following steps to configure the **Send to Folder Settings**.

- [Set up the Send to Folder settings](#)
- [Create a Home Directory](#)
- [Create Shared folders](#)

## Set up the Send to Folder settings

Use the following steps to set up **Send to Folder Settings** in the EWS.

1. Open a Web browser.  
For instructions, see [Access the HP Embedded Web Server \(EWS\) on page 5](#)
2. On the top navigation tabs, select the **Digital Sending** tab.
3. On the left navigation pane, select **Send to Folder Settings**.

4. Select the **Enable Send to Folder** check box.
5. In the **Send to Folder Network Settings** section complete the following steps:
  - a. In the **Authentication Setting** drop-down list, select **Kerberos**.
  - b. Click **Apply**.

## Create a Home Directory

Follow these steps to create a Home Directory

1. Open a Web browser.  
For instructions, see [Access the HP Embedded Web Server \(EWS\) on page 5](#)
2. On the top navigation tabs, select the **Digital Sending** tab.
3. On the left navigation pane, select **Send to Folder Settings**.
4. Select the **Enable Send to Folder** check box.
5. In the **Quick Sets** section, click **Add**.
6. On the **Add Quick Set** page, in **Step 1: Specify Quick Set settings**, select the **Create a personal Quick Access folder** check box.



**NOTE:** Step 2 will display the **Home Directory** attribute.

7. Click **OK**.

**Figure 3-11** Add Quick Set

Add Quick Set

This page lets you add or edit a quick set. Click [Help](#) for more information.

**Step 1: Specify Quick Set settings**

Alias Name: (Quick Set name displayed on the device)

Default Filename: (Can be overridden by the device user)

Create a personal Quick Access Folder

**Step 2: Send To Home Folder Settings**

LDAP Attribute:  
  Is LDAP Attribute of type Home Folder?

Folder Path: (For example: \\mycomputer\share\mypath)

## Create Shared folders

Follow these steps to create shared folders:

1. Open a Web browser.  
For instructions, see [Access the HP Embedded Web Server \(EWS\) on page 5](#)
2. On the top navigation tabs, select the **Digital Sending** tab.
3. On the left navigation pane, select **Send to Folder Settings**.
4. Select the following check boxes:
  - **Enable Send to Folder**
  - **Enable Scan setup Wizard**
5. In the **Send to Folder Network Settings** section, select **Kerberos** from the **Authentication Setting** drop-down list.
6. In the **Quick Sets** section, click **Add**.
7. In the **Add Quick Set** page, complete the following steps:
  - a. In **Step 1: Specify Quick Set settings**, type the alias name.

- b. In **Step 2: Add or remove entry from Quick Set**, click **Add Folder**.

**Figure 3-12** Add Folder

Step 2: Add or remove entry from Quick Set

Select address book:  
Local

Type a name, or select from the folder list:

Name	Address
------	---------

Add...

Name	Address
------	---------

Add Folder... Edit... Remove

- c. On the **Add Shared Folder** page, complete the following steps:

- i. Select the **Shared Folder** option.
- ii. In the **Step 3: Specify the access credentials** section, select **Use Device User's Credentials** from the **Access Credentials** drop-down list.

8. Click **OK**

**Figure 3-13** Shared Folder settings

Information Settings Digital Sending Fax Networking

General  
Send to Folder Settings  
Send to Folder Address Book  
Send to Folder Import/Export  
E-mail Settings  
E-mail Address Book  
LDAP Settings  
Email/Fax Import/Export  
Log  
Preferences  
Web Service Security

Other Links  
hp instant support  
Shop for Supplies  
Product Support

### Add Shared Folder

This page lets you add or edit a shared folder or ftp site. Click [Help](#) for more information.

Step 1: Choose the destination type

Shared Folder  
(a share created on either a workstation or server)

FTP Site  
(a workstation or server that has a File Transfer Protocol service installed and configured)

Step 2: Specify the shared folder settings

Folder Path: (For example: \\mycomputer\share\mypath)

Step 3: Specify the access credentials

Access Credentials:  
Use Device User's Credentials

Domain:  
Username:  
Password:

Test Folder Access

OK Cancel



---

# A Licenses

This solution from HP uses and contains open source code and libraries from Heimdal Kerberos 5, OpenLDAP, OpenSC, and OpenSSL. Following are acknowledgements, copyrights, and license information associated with these open source solutions.

- [Heimdal Kerberos](#)
- [OpenLDAP](#)
- [OpenSC](#)
- [OpenSSL](#)
- [SHA-2](#)

# Heimdal Kerberos

This product contains Heimdal Kerberos in binary form. Use of this software is governed by the terms of the license below:

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