

# HP 9200C Digital Sender Firmware Readme

## IMPORTANT NOTE:

This firmware version installs code signing verification functionality. Firmware signed by HP guarantees the integrity and authenticity of the code; meaning that the firmware was produced by HP (authenticity) and that the firmware has not been altered in any way (integrity).

**ATTENTION: Once this firmware has been applied to your digital sender it CANNOT BE DOWNGRADED to a previous unsigned version of firmware.**

**BACKGROUND:** It is important to note that Code Signing Verification functionality has been provided with this version of firmware and will be provided with all future versions of firmware; therefore, the ability to downgrade to a previous version of firmware no longer exists.

**Product Name(s):** HP 9200C Digital Sender

**Model Number(s):** Q5916A

This document contains information for the firmware revision **20141218 09.271.3**, HP Fleet Release Designation **Signed CPE 11.2.2**, and any previous revisions if applicable.

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## **Description**

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This Readme file provides specific installation instructions and other information you should know before you perform a firmware update for your HP 9200C Digital Sender.

This document provides specific update, installation and troubleshooting information. For additional information on the device features, refer to the Documentation CD that came with your HP 9200C Digital Sender.

### **Who needs this firmware?**

Hewlett Packard provides firmware updates for your HP 9200C Digital Sender periodically through its supported lifecycle. A firmware update may be necessary if it is determined that you may benefit from the resolution of any issue that is documented below. Firmware updates are available on the HP support web site.

### **Determining the current version level of your firmware**

To determine the current level of firmware installed on the device:

1. Go to the HP 9200C Digital Sender's control panel.
2. Press the "Menu" button.
3. Select the "Information" menu.
4. Then, select "Show Configuration".

The "Configuration Page" will be displayed on the front panel. Eight (8) lines beneath the "Device Information" heading, "Firmware Datecode" will be displayed. The firmware date code will look something like this: **20070606 09.081.4**

## **FIXES AND ENHANCEMENTS PROVIDED WITH THIS FIRMWARE REVISION FIRMWARE DATECODE: 20141218 09.271.3**

### **ENHANCEMENTS:**

No new functionality or features are provided by this firmware release.

### **FIXES OR IMPROVEMENTS:**

This firmware provides fixes or improvements for following issues-

Authentication/Security:

- This firmware addresses the following security issue:  
CVE-2014-0224 - SSL/TLS MITM vulnerability  
CVE-2014-3566 – SSLv3 POODLE (Padding Oracle on Downgraded Legacy Encryption) Vulnerability

**Current firmware revisions included in this firmware bundle (20141218 09.271.3)**

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	<b>V.33.28.FF</b>
Copy Processor Board (CPB):	<b>0.214 (2.0)</b>
Scanner Control Board (SCB):	<b>CMNPSL 28</b>
Bootloader:	<b>2.54</b>
HP Fleet Release Designation	<b>Signed 11.2.2</b>

**Enhancements and Fixes provided with this Firmware revision:  
20120217 09.270.2, Signed CPE 11.2**

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**IMPORTANT NOTE:**

This firmware version installs code signing verification functionality. Firmware signed by HP guarantees the integrity and authenticity of the code; meaning that the firmware was produced by HP (authenticity) and that the firmware has not been altered in any way (integrity).

**ATTENTION: Once this firmware has been applied to your digital sender it CANNOT BE DOWNGRADED to a previous unsigned version of firmware.**

**BACKGROUND:** It is important to note that Code Signing Verification functionality has been provided with this version of firmware and will be provided with all future versions of firmware; therefore, the ability to downgrade to a previous version of firmware no longer exists.

**Enhancements, fixes, or improvements:**

This firmware is a signed version of the previous release (CPE 11.2). It contains no other enhancements or fixes.

**Current firmware revisions included in this firmware bundle (20120217 09.270.2)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.25.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.214 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>
<b>HP Fleet Release Designation</b>	<b>Signed 11.2</b>

## **Enhancements and Fixes from previous firmware updates**

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20110409 09.260.5, CPE 11.2:**

### **Enhancements**

No new functionality or features are provided by this firmware release

### **Fixes or improvements**

Fixes or improvements for the following issues are provided by this firmware release:

- Autosend and Embedded Email alert functionality may not work properly on servers where SMTP Authentication is configured.
- Embedded Send to Network Folder jobs could fail for users with passwords containing ISO Latin-1 characters
- Network Folder Alias (Display Name) may not work correctly

**Current firmware revisions included in this firmware bundle (20110409 09.260.5)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.21.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.214 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>
<b>HP Fleet Release Designation</b>	<b>11.2</b>

## **Enhancements and Fixes from previous firmware updates**

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### **Enhancements and Fixes to the HP Digital Sender 9200C product in 20110215 09.230.2:**

#### **Enhancements**

No new functionality or features are provided by this firmware release

#### **Fixes or improvements**

Fixes or improvements for the following issues are provided by this firmware release:

- A 49.00FF error may be seen when performing embedded Send to Network Folder digital send jobs
- The device priority for name resolution transport (DNS or WINS) can be configured for embedded Send to Network Folder
- Excessive DNS traffic may be generated when the SMTP server under Digital Sending -> Email Settings is configured by hostname instead of IP address
- The MFP User Credential form is now viewable for workflows configured in HP MFP Digital Sending Software
- Some embedded Send to Email digital send jobs may fail when configured to use SMTP authentication and custom message body text is specified
- User credentials containing diacritic characters in the password field may not pass properly for embedded Send to Network Folder digital send jobs
- The Secure Erase Mode may be reported incorrectly if no disk is installed

### **Current firmware revisions included in this firmware bundle (20110215 09.230.2)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.21.FF</b>

<b>Copy Processor Board (CPB):</b>	<b>0.214 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>
<b>HP Fleet Release Designation</b>	<b>11.1</b>

## **Enhancements and Fixes from previous firmware updates**

### **Enhancements and Fixes to the HP Digital Sender 9200C product in 20101113 09.220.1:**

#### **Enhancements in this firmware release (20101113 09.220.1):**

- When synchronizing with a network time server, the printer clock now copies the actual time from the server. Previously it only corrected for drift within a small time range.
- The configurable maximum attachment size for embedded send to email has been increased

#### **The following issues are resolved by this firmware release (20101113 09.220.1):**

- A change in the File Erase Mode may not be updated in the EWS without a power cycle
- A 49.4C02 Error may occur when applying a WebJetAdmin configuration template containing Kerberos Authentication settings
- Digital Send jobs could have missing scan pages if a paper jam occurred during the scan

#### **Current firmware revisions included in this firmware bundle (Version 09.220.1)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.21.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.214 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>
<b>Fleet Release Designation</b>	<b>10.4</b>

## **Enhancements and Fixes from previous firmware updates**

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### **Enhancements and Fixes to the HP Digital Sender 9200C product in 20100904 09.200.2:**

**The following issues are resolved by this firmware release (20100904 09.200.2):**

- Boot-up hangs may be seen in the 6/C and 6/E process on machines more heavily used. The Event Log may also show a 49.1D34 error.
- After performing restore factory settings the Device Name is not changed to Factory Default

### **Current firmware revisions included in this firmware bundle (Version 09.200.2)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.21.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.211 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>
<b>Fleet Release Designation</b>	<b>10.3</b>

### **Enhancements and Fixes to the HP Digital Sender 9200C product in 20100501 09.180.8:**

**The following issues are resolved by this firmware release (20100501 09.180.8):**

- Possible 49.5001 errors with DSMP network traffic
- Will not interoperate with Win2008 Release 2, receives Failure 823 error response
- Printer slows and eventually hangs due to HTTPS/EWS usage
- Print job delays under HP UX RLP/LPD printing
- User is not prevented from installing identity certificate where a CA certificate is required

### **Current firmware revisions included in this firmware bundle (Version 09.180.8)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.21.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.211 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>
<b>Fleet Release Designation</b>	<b>10.2</b>

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20100220 09.170.8:**

**The following issues are resolved by this firmware release (20100220 09.170.8):**

- Authentication could fail if the user password contained the Euro character
- A 49.4C02 error could occur when applying Kerberos configuration settings through HP MFP Digital Sending Software

**Current firmware revisions included in this firmware bundle (Version 09.170.8)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.20.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.211 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20091020 09.160.4:**

**The following issues are resolved by this firmware release (20091020 09.160.4):**

- HP Proprietary code modifications

**Current firmware revisions included in this firmware bundle (Version 09.160.4)**



ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.20.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.208 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>

## **Enhancements and Fixes to the HP Digital Sender 9200C product in 20090908 09.151.3:**

### **Enhancements in this firmware release (20090908 09.151.3):**

- The Wake-Up schedule can now be set with Sleep Mode disabled
- The Asset Field found in the products EWS (Embedded Web Server) which is used for assigning Asset numbers to a device has been changed to allow support for more characters.

### **The following issues are resolved by this firmware release (20090908 09.151.3):**

- LDAP authentication (Simple or Simple over SSL) could fail with an insufficient privileges error in some configurations
- A 49.4C02 error may be seen when "Disable Reverse DNS Lookups" is selected under Settings -> Kerberos Authentication -> Advanced
- There is now the option to specify a primary and backup LDAP server under Settings -> Kerberos authentication. This feature reduces authentication failures related to hostname resolution issues during the LDAP portion of the authentication cycle
- Embedded send to network folder digital send jobs would fail when NTLMv2 is selected as the password encryption method
- The digital send log would incorrectly designate some failed digital send jobs as successful
- A 49.00FF error could be generated after an abnormal communication break between the MFP and its configured DSS server
- Embedded send to network folder digital send jobs may fail to create XML metadata files
- Embedded send to network folder digital send jobs may generate metadata files with truncated output
- A 49.4C02 error may be seen when configuring Kerberos authentication through HP MFP Digital Sending Software

- A 49.4C02 error may be seen when trying to login after a power cycle or firmware update when the MFP is configured for sign in at home screen
- Kerberos Authentication may be successful in the user interface when incorrect credentials are specified in the MFP Embedded Web Server
- HTTPS is forced on Printer/MFP tabs when required
- When DNS responses are returned as a stream (TCP) rather than a datagram (UDP), JDI would wait forever for more data
- When Web Jetadmin is on a different subnet than the printer and establishes an HTTPS connection to query status, the JDI would mishandle the connection and hang

### **Current firmware revisions included in this firmware bundle (Version 09.151.3)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.20.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.208 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>

### **Enhancements and Fixes to the HP Digital Sender 9200C product in 20090605 09.141.4:**

#### **The following issues are resolved by this firmware release (20090605 09.141.4):**

- Some Embedded Send to Network Folder jobs would result in corrupt PDF output in the destination directory
- The configured time server set under Settings -> Date & Time -> Clock Drift Correction would intermittently change from the configured setting.
- When "Disable Reverse DNS Lookups" is enabled under Settings -> Kerberos Authentication -> Advanced, the MFP could experience a 49.4C02 error
- A potential for the Kerberos configuration on the MFP to become corrupt could generate a 49.4C02 error on the MFP

**Current firmware revisions included in this firmware bundle (Version 09.141.4)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.19.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.208 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20081211 09.131.1:**

**Enhancements in this firmware release (20081211 09.131.1):**

- Kerberos Authentication now supports the ability to specify multiple Kerberos domains

**Current firmware revisions included in this firmware bundle (Version 09.131.1)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.18.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.208 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20080727 09.120.9:**

**Enhancements in this firmware release (20080727 09.120.9):**

- Send to FTP can now be configured to add a timestamp to the destination file name

- Send to FTP can now be configured to disable the access verification (send FTP test file) of the destination directory for every job

**The following issues are resolved by this firmware release (20080727 09.120.9):**

- Under rare circumstances a user may not be able to initiate a send to FTP job if one is already in progress

**Current firmware revisions included in this firmware bundle (Version 09.120.9)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.18.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.208 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20080403 09.111.1:**

**Enhancements in this firmware release (20080403 09.111.1):**

- Embedded Send to Network Folder has added support for Distributed File System (DFS) folder destinations
- When the device is managed by HP Digital Sending Software 4.11 (or higher) it is now possible to have jobs sent to email and folder OCR processed

**The following issues are resolved by this firmware release (20080403 09.111.1):**

- Disk initialization does not properly clear authentication assignments
- Kerberos authentication fails when public credentials are used and Simple is configured as the LDAP server bind method
- MFPs could generate truncated Send to FTP output
- SMTP server cannot be configured by hostname from WJA
- MFPs could pass credentials multiple times when performing send to network folder

- Use Defaults button in EWS Custom DST settings does not work.
- SMTP server could be configured with a port number of 0 for Embedded Send to Email
- The column name "Severity" is missing in the digital send log page of the embedded web server
- The device may display "Processing Digital Send job" indefinitely when sending jobs through HP Digital Sending Software
- The device may display "Digital Send Server not responding" when trying to scan to any destination and the device is managed by HP Digital Sending Software
- Possible 49 error when embedded web server is disabled
- PML becomes non-responsive on MFP. MFP embedded web server does not appear; only JetDirect embedded web server available.

### **Current firmware revisions included in this firmware bundle (Version 09.111.1)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.16.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.208 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>

### **Enhancements and Fixes to the HP Digital Sender 9200C product in 20071212 09.101.0:**

#### **Enhancements in this firmware release (20071212 09.101.0):**

- Administrators can now specify the SMTP port used for embedded send to email. This option is now available under Digital Sending>Send To Email in the embedded web server

### **The following issues are resolved by this firmware release (20071212 09.101.4):**

- Authentication Manager help page incorrectly displayed DSS Secondary Email as DSS Secure Email
- The help page under Settings>Security of the embedded web server has been modified to better reflect product functionality

- The ability to specify the number of visible digital send log entries was not available under the Digital Sending>Log section of the Embedded Web Server.
- When attempting embedded send to network folder, the MFP will become unresponsive if the server hosting the destination directory is unavailable
- In the past two FW revisions, an RFU did not automatically power cycle the device if the PJL password was set. The FW upgrade did not happen until a manual power cycle.
- When configured for LDAP Authentication, authentication can fail if the entered username contains diacritic characters (For example á, ë, ö).
- EWS Time Zone display Strings are displaying Junk characters for German and Norwegian
- Improper capitalization of some words in the Embedded Web Server under Digital Sending/Addressing
- Possible control panel hang when changing time zones
- Kerberos Authentication could successfully authenticate a user if date and/or hour on the MFP were not correct in relation to the Kerberos authentication server
- For users of Mozilla Firefox, the homescreen image under Settings>Authentication Manager>Help did not display
- A 49.4C27 error can occur when LDAP Authentication is selected as the authentication method and the user enters their email address in the username field and leaves the password field blank

### Current firmware revisions included in this firmware bundle (Version 09.101.0)

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.15.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.208 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>

### Enhancements and Fixes to the HP Digital Sender 9200C product in 20070919 09.091.4:

#### NOTES for 20070919 09.091.4:

This release includes the ability to automatically adjust for daylight saving time. HP strongly recommends this be configured via the EWS (Embedded Web Server) or Web Jetadmin (it is not possible to verify all DST settings via the control panel or menu map). Selecting your time zone

will automatically set the appropriate start and end dates for daylight saving time. After configuration, settings can be verified from the EWS as follows:

- Select the Settings tab from the top of the EWS (password may be required)
- Select Date and Time from the left side of the Settings Page
- Select Advanced
- Select Start Date/End Date
- Verify the Start Date, End Date, and DST Offset settings are correct for your time zone

Accessing the EWS:

- Open your web browser
- In the Address or Go To field, type the Internet Protocol (IP) address that is assigned to the product (for example, <http://192.168.1.1>) or the host name (for example, NPI474283 )
- If the Information tab is the only one at the top of the page, your administrator has restricted access by setting an EWS password

A security enhancement in a previous release may prevent the automatic power cycle at the end of an RFU (Remote Firmware Upgrade). The firmware will not actually upgrade until the unit is power cycled, although it will display "Receiving Upgrade" during transmission. This can be avoided by clearing the PJI password prior to sending the upgrade, or by manually power cycling the unit after sending the RFU file.

### **Enhancements in this firmware release (20070919 09.091.4):**

- Embedded Send to Folder can now use DNS or WINS
- Enabled the ability to logon with UserPrincipalName without specifying a domain.
- Kerberos username field increased to accommodate longer UserPrincipalName entries

An enhancement allows the keyboard language/layout to be selected independently from MFP Language. The new menu item is 'Keyboard Layout' in the Systems Setup menu. A new keyboard layout option of Swiss/French (QWERTZ) is also added

### **The following issues are resolved by this firmware release (20070919 09.091.4):**

- A 49.4C27 may occur if a hardkey is pressed quickly after confirming authentication credentials.
- Front Panel Configuration Page view has incorrect translation for text of "Configuration Page" in Czech
- Digital Send client application may hang when you press the RESET or STOP buttons after initiating a scan.
- The firmware release prior to this one added the ability to automatic adjust the clock for daylight saving time. With that release, if the MFP is turned off for the entire duration of the time change (turned off before 2:00 AM, and on after 3:00 AM in the U.S.) the clock will not adjust.
- Time Zone control panel menu is English-only
- Embedded Send to Folder meta data files contain no carriage returns.

- An Embedded Send to Network Folder Job may fail when sending across different subnets.
- You may received an error while trying to delete an email distribution list which has long entries.
- Excessive DNS traffic when resolving LDAP, SMTP, and KDC server IP addresses may cause the MFP to become slow or unresponsive
- Incorrect localization of time zone names in the EWS
- When sending an email, the time on the attached image's header may be ahead by one hour of when the email is sent.
- The Date/Time and Time Zone wizards no longer appear after a firmware upgrade, or with new units. This allows complete remote management. Users must remember to set the date, time, time zone, and DST behavior to insure correct time settings.
- Setting the Compression Mode does not have any effect for Scan to Local Folder jobs.
- Special Characters are not accepted in an MFP device password

### **Current firmware revisions included in this firmware bundle (Version 09.091.4)**

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.15.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.208 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>

### **Enhancements and Fixes to the HP Digital Sender 9200C product in 20070606 09.081.4:**

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**NOTE:** This firmware release has a new feature to automatically adjust for Daylight Saving Time. After installation of the firmware, the Digital Sender may have a control panel screen prompt for time zone or date and time. These screens will remain on the Digital Sender until action is taken by the user.

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### **Enhancements in this firmware release (20070606 09.081.4):**

- Allows Embedded send-to-folder to be configured such that user directories can be locked down, limiting access to the user that owns the directory.
- Added support for e-mail PDL's and fax speed dials to Simple Device Address Book.
- Automatic Daylight Saving Time adjustment added.



- When "Use address book entries only" is selected in the Embedded send-to-email configuration, end users will now be prevented from adding entries to the local address book. This enables administrators to further restrict send-to-email destinations.

**The following issues are resolved by this firmware release (20070606 09.081.4):**

- No support for localized characters in the COMPANY NAME field of the FAX HEADER in the EWS (only ASCII characters 32 to 127).
- 3rd party solutions developed using Simple Document Capture (SDC) will now work correctly when the device is added to the Digital Sending Software (DSS).
- MFP will roll to a different NTP server when configured by hostname if named server is not available.
- Long email addresses are truncated when they are added to the local address book. The limit is now extended to 64 characters.
- Event log may show values above 59 seconds instead of rolling to minutes.
- Blank passwords not allowed for Embedded LDAP Authentication.
- Possible 49.4c02 error while using Embedded send-to-folder.
- Embedded LDAP over SSL Authentication does not work in Windows 2000 and Windows 2003 environments.
- Homescreen image may be missing from the EWS Authentication Manager Help when viewed through a Mozilla Firefox web browser.
- Setting "Allow Use of Digital Send Service" to OFF clears default Subject for send to email
- Time server IP address lost on FW upgrade

ACCESSORY	FIRMWARE VERSION
<b>Embedded JetDirect:</b>	<b>V.33.15.FF</b>
<b>Copy Processor Board (CPB):</b>	<b>0.208 (2.0)</b>
<b>Scanner Control Board (SCB):</b>	<b>CMNPSL 28</b>
<b>Bootloader:</b>	<b>2.54</b>

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20070213 09.071.8:**

**Enhancements in this firmware release (20070213 09.071.8):**

- Now allow Web Jetadmin to set the clock forward or backward for daylight saving time adjustment.
- Embedded Send Network Folder - Add support for forward slash (/) characters in a UNC path.

- User PIN Authentication added.
- Adding User Principle Name support to Embedded Kerberos Authentication.
- Added Simple Address Book for fax and email. This feature can be managed from the device's embedded web server.
- Added the ability to set a Sleep time within the EWS during each day of the week. This is the opposite setting a wake time in the morning.
- Warning added when requesting Secure Storage Erase.
- Administrator may restrict send-to-email to only send to addresses found in the Address Book. To enable this, select "Use Address Book entries only" on the Email Settings page of the MFP embedded web server.
- Authentication Manager settings are now saved during a disk init or Secure Storage Erase

**The following issues are resolved by this firmware release (20070213 09.071.8):**

- User-specified filename may be reset after selecting Folder Destination for Embedded Send to Network Folder.
- DSS Send to Network Folder file size setting may not work properly
- The "date" field is missing in the SMTP header.
- Intermittent loss of "Send to Network Folder" Jobs.
- Embedded Kerberos Authentication will not resolve passwords with European characters.
- Time stamp information missing from XML data.
- LDAP performance may be slow In Enterprise Directories.
- Wording changes on Secure Storage Erase selection in EWS.
- Possible errors importing CSV address book entries.
- Scan-to-local file fails when network not detected on bootup.
- Possible "Processing Job" hang with send-to-email when there are delayed responses from the SMTP server due to long distance or slow network.
- Disk Initialization Clears Settings for Digital Send.
- LDAP performance may be slow in Enterprise Directories

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20060914 09.062.0:**

**Enhancements in this firmware release (20060914 09.062.0):**

- More complete user information is included in the log file for send-to-email jobs.
- Front panel progress bar added for firmware upgrades.
- Now log 49.FF81 errors to the device Event Log for better tracking of hard disk related issues.
- Added the ability to Backup and Restore the Fax Address Book & Fax Speed Dial list.
- Firmware upgrades are now logged to the device Event Log.

- Firmware version now included in all Event Log entries.
- Added additional metadata keys to support 3<sup>rd</sup> party job accounting solutions.
- New security page added to Embedded Web Server.

**The following issues are resolved by this firmware release (20060914 09.062.0):**

- Some ADF jams may hang 3<sup>rd</sup> party SCAPI-based solutions.
- SLEEP DELAY is not resetting to default after Restoring Factory Settings
- Kerberos Authentication may not work when the LDAP Server Bind Method is anything but Kerberos.
- Pressing the Reset key during a scan initiated by a third party application running on the MFP may cause the device to become unresponsive.
- 49.4C02 error may occur on power cycling the device when LDAP Authentication set to "Log In At Walk Up".
- EWS Configuration Page incorrectly shows NFS access as "enabled" when it is actually disabled.
- When setting up Embedded Send To Network Folder with MFP User Credentials, the user is prompted to enter Public Credential Information before leaving EWS.
- SMTP Authentication fails when used with Microsoft IIS Virtual SMTP Server.
- 49.4C02 error may occur after performing restore factory setting following a Disk INIT/NVRAM INIT.
- 49.4C02 or 49.4C06 may occur when pressing the Reset key with some third party Digital Send Enabler applications.
- HP MFP Digital Sending Software (DSS) limited to 32 log entries.
- Scan "Scaling Error" message is cropped in all languages except English.
- MFP or Digital Sender loses contact with Network Time Protocol (NTP) server if IP address changes
- Secure Storage Erase operations may not consistently show up in the event log.

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20060519 09.051.7:**

This release is largely the same as the 20060411 09.051.6 release and fixes long upgrade times sometimes experienced when upgrading from 09.031.8 to 09.051.6 without first upgrading to 09.041.7. Sometimes, during the long upgrade individuals would powercycle the device before the upgrade was complete, introducing the potential for component firmware corruption. As of this writing, the issue has not been seen with the 9200C. As a precaution, the 9200C was included in the firmware re-release.

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20060411 09.051.6:**

**Enhancements in this firmware release (20060411 09.051.6):**

- Added ability to scan mixed page sizes for digital send jobs similar to MFP copy functionality.
- Now give administrators control over which LDAP attribute is used for LDAP Authentication. Previously, users had to enter a portion of their LDAP User DN at the front panel. Now, as an example, users administrators could choose to allow users to login using their telephone number or employee ID.
- Added support for SMTP Authentication in Email Alerts.
- Enhanced embedded send-to-ftp performance.
- Added "Turn Power Off, then On" message to all 49 errors. 49 errors are used to communicate a hard-stop condition that the MFP/Digital Sender has entered following a firmware failure. Under certain circumstances, HP may be able to run memory stack traces when the device is in this state to determine the source of the failure. The "Turn Power Off, then On" message tells end users how they may recover from the failure state in the event this is an inconvenient time to troubleshoot the error.
- Added ability to secure device boot loader menu to prevent unauthorized resets.
- For send-to-email, added ability to auto-populate the CC: field with the sender's email address while allowing the user to edit the TO: field. This feature can be enabled via a PJI file available from HP.
- For send-to-email, added ability to disable BCC: field. This feature can be enabled via a PJI file available from HP.
- Added ability to mask pin number for DSS send-to-lanfax.
- Added ability to use hostnames and IP addresses for SMTP and LDAP server settings in the MFP/Digital Sender embedded web server.
- Improvements to digital send performance for mixed-mode monochrome TIFF/MTIFF scan jobs.

**The following issues are resolved by this firmware release (20060411 09.051.6):**

- When performing an initialization of compact flash other than the boot flash, the compact flash device does not have the file system automatically re-initialized when the printer reboots to Ready.
- MFP/Digital Sender displays a 49 SVC error while the user is configuring scan settings for send-to-folder.
- At the device front panel, a Help popup message is not cleared although the user navigated away from it using the "back" button.
- MFP/Digital Sender fails with 49 SVC error during multiple device upgrade from Web JetAdmin.
- For a short time after bootup, a user can populate the Email FROM: address even though "Prevent Device user from changing the Default 'From:' Address" is checked in the Embedded Web Server.
- MFP/Digital Sender front panel might lock up if front panel buttons are selected immediately after an authentication failure.
- MFP/Digital Sender fails with 49 SVC error when a very long name is used for SMTP gateway at the front panel.
- In the MFP/Digital Sender's embedded web server, the 'Send to Folder Network Settings' title is not localized in languages other than English.

- Subsequent scan jobs may hang as a result of improper handling of an error event such as an ADF Jam error.
- For send-to-folder, using the "create directory based on username" feature, scan files may become lost when the document name is not set to a unique value.
- If the MFP/Digital Sender is used with HP MFP Digital Sending Software 4 (DSS4), and authentication is not enabled within DSS4, authentication may get enabled in the upgrade to the December 2005 version of firmware. Because authentication is not configured, users will not be able to login and use digital sending features.
- In the MFP/Digital Sender's embedded web server, "Send E-mail" and "Send Fax" strings are incorrect for French.
- Users are not prompted to authenticate when accessing Autostore-provided icons at the MFP/Digital Sender front panel even though Authentication has been configured through DSS4. Upgrading to the December 2005 firmware version caused Authentication to become disabled in the device's Authentication Manager requiring it to be reconfigured through the device's embedded web server.
- For the French language, the embedded web server tab for embedded send to network folder is incorrectly labeled as "Fax" instead of "Folder."
- Pressing the Authentication Manager Apply button multiple times puts the device into a Device Busy State, resulting in slow device performance and some inaccessible device functions.
- For send-to-folder, invalid characters (\, "", ;, etc....) are allowed for filenames after the user enters special or ALT characters.
- Scan-to-FileNet workflows have invalid metadata as a result of extra spaces inserted at the head of metadata strings when values are selected from a string list.
- MFP/Digital Sender posts a 49 SVC error on the front panel if the IP address was manually changed multiple times in quick succession via the embedded web server.
- PjL disk commands are accessible to unauthenticated users causing potential security vulnerability.
- MFP/Digital Sender fails with a 49 SVC error after a power cycle when Authentication Manager "Log In At Walk Up" is set to "LDAP".
- Special characters (\, "", ;, etc....) are allowed in the embedded web server fields for LDAP server and SMTP gateway.
- A "Warming Up" message is posted to the front panel continuously if the scanner lid was opened while the device was in sleep mode and if the lid was closed and the start button was pressed before the device came to a Ready state. The device must be power-cycled to clear the "Warming Up" message.
- For the Spanish language, at the device front panel, if you navigate into DIAGNOSTICS, CONTROL PANEL, LEDs, you'll see a set of buttons. Two of the buttons to test are "Start Green LED" and "Start Amber LED". Both buttons read "Start Green LED", although the lower right button should say "Start Amber LED".
- Some menu items are available at front panel without the user providing valid credentials per "Log In At Walk Up" authentication.

## **Enhancements and Fixes to the HP Digital Sender 9200C product in 20051210 09.041.7:**

**Enhancements in this firmware release (20051210 09.041.7):**

- Added the ability to select a Turkish F keyboard via a PJL file.
- Added embedded Kerberos authentication.
- MFP serial # now included in embedded send to folder metadata.
- Reduced network traffic due to DSMP Polling. HP Digital Sender 9200C and LaserJet MFP devices use the proprietary DSMP protocol to communicate with HP MFP Digital Sending Software (DSS). Previous firmware revisions caused the MFP to poll DSS every 60 seconds in order to check availability of digital sending. As long as DSS was available, the MFP would continue to display Email, Folder, Workflow or Fax icons. If DSS was unavailable, the MFP would display "not available" for these digital send options. With this firmware release, MFPs will no longer periodically poll DSS for status. Email, Folder, Workflow and Fax icons will be displayed constantly if they are configured in DSS. If the MFP is unable to communicate with DSS when a user attempts to interact with these services, an error message will be displayed.

**The following issues are resolved by this firmware release (20051210 09.041.7):**

- 95.0001 errors when using Autostore
- The "From:" field no longer contains an Email address and is inaccessible after using the Autostore application.
- Possible 49.00FF error when digital sending and email server replies with a multi-line response.
- Scanning will stop during large media digital sends
- 49.4C02 on reset or timeout while "Authentication Method Not Found" message is displayed.
- 49.4c02 after reboot with email job processing and network cable removed.
- Danish localization defects
- Find Settings in EWS Digital Sending menu may not work if a password is set
- Disappearing DSS Workflow and Folder menus - In the previous firmware release users may observe that Folders and Workflows would disappear following a Email address lookup via LDAP, or a Secure Storage Erase. The Folders and Workflows would reappear following a normal powercycle.

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20050914 09.031.8:****Enhancements in this firmware release (20050914 09.031.8):**

- Added support for Embedded SMTP Authentication.
- Added the ability to compress color MTIFF and TIFF with new JPEG compression.
- Added a feature that prompts the user to add new addresses to the local address book.
- Added a time stamp to device event logs.
- Added the ability for some 3rd party UI applications to specify the filename prefix and the multi-page numbering method to be used for the job.

- Improved performance with units in high production environments that are also using Secure Disk Erase.
- Improved messaging in EWS when attempting to remove all folders in embedded digital send.
- Improved messaging in EWS when attempting to create a folder where the user does not have proper credentials.
- Improved front panel messaging when using some 3rd party configuration utilities.
- Improved front panel messaging when Authentication Agent not found.

**The following issues are resolved by this firmware release (20050914 09.031.8):**

- Device clock failed to maintain the correct time.
- Option to restore defaults did not restore all settings to default.
- Some front panel messages were not properly localized for a given language.
- MFP polls the SMTP gateway every 60 seconds, which may fill the SMTP server log files
- Send to workflow in DSS 4 creates excessively large TIFF files
- Poor dynamic LDAP performance when using Active Directory
- MFP does not issue an SMTP QUIT command
- Applying DSS authentication settings clear embedded LDAP authentication settings
- Incomplete search root when using SSL may cause internal test to fail
- LDAP IP settings disappear after pressing OK in the Advanced screen
- Unable to select email address to delete after deleting address in AB edit
- Test LDAP Settings uses 1 second timeout rather than selected value
- Possible 68 errors if unit is powered down too soon after changing DSS settings
- Possible 86.1B8E errors when selecting multiple email destinations from a very large LDAP address book

**Enhancements and Fixes to the HP Digital Sender 9200C product in 200500520 09.022.1:**

**Enhancements in this firmware release (200500520 09.022.1):**

- Added support for SSL over LDAP. This support is provided via the JetDirect interface and provides encryption for embedded LDAP Addressing as well as embedded LDAP authentication
- Added support for more "threads" in support of third party solutions.
- Now show settings for Secure File Disk Erase on the Configuration screen.
- Added ability for 9200C to identify itself to DSS for the purpose of auto-generating 9200C licenses.
- Added embedded send-to-folder.
- Changed the layout of the Turkish Q keyboard.
- Added usability when scrolling through the product menus.

**The following issues are resolved by this firmware release (200500520 09.022.1):**

- 49.xxxx errors when using third party authentication agents.
- 49.4C02 error would occur when initially setting the Date/Time, and when changing the Wake Up time.
- Quick action of inserting and removing paper from the ADF while the MFP was scanning would cause the MFP to "hang".
- Corrected Configuration Menu items displayed via the Embedded Web Server (e.g., card slot 2 parameters).
- Corrected methods in dealing with Chai Applets.
- LDAP Authentication name of user not shown in XML file.
- Issue with Black & White MTIFF compression.

**Enhancements and Fixes to the HP Digital Sender 9200C product in 20050125 09.011.5:**

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**IMPORTANT NOTE:** With this firmware upgrade (09.011.5) we are upgrading many of the sub-components of your product. As a result of this, it may be necessary to manually power-cycle the product at the end of the upgrade process. Programming some sub-component may take some additional time during the upgrade process, the message "To continue power off then on" may be displayed on your product's Control Panel if your product's subcomponents require the upgrade. [Note, some newer products may already have upgraded subcomponents.] At that time please toggle the ON/OFF power switch to OFF, then ON. The product will then power up in its normal sequence.

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It is extremely important NOT to power OFF the product in the middle of the upgrade process.

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**Enhancements in this firmware release (20050125 09.011.5):**

- New firmware for the MFP's Scanner/Controller PCA (corrected situation where premature "ADF Output Bin Full" messages occurred.)
- New hp Embedded JetDirect firmware included in this bundle.
- Web Jetadmin unable to complete a remote firmware upgrade with control panel locked. This revision changes how future upgrades will be handled, but upgrading to this revision will still require a manual reboot.
- Incorrect page counts in XML data (for Instant Support) were recorded.
- Show Configuration menu did not display DIMMS slot information.

**The following issues are resolved by this firmware release (20050125 09.011.5):**

- Fixed an issue where an LDAP hostname was not being resolved in the same way as a SMTP hostname.
- Fixed an issue where Active Directory was losing a person object.
- Changed the display message E-mail "Not Available" to "Not Configured".
- Fixed an issue where 75dpi E-mails were being sent as 150dpi with a 75dpi header.



- Fixed an issue where multiple copies of the same e-mail were being sent.
- Added the functionality of automatically copying the sender of an e-mail, a direct copy of the e-mail that was sent.
- Fixed an issue where LDAP lookup no longer functions after executing a Find Send Gateways without network connectivity.

## Installation Instructions

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**NOTE:** Please be aware that an update in some circumstance may require ten minutes or more to complete.

### Upgrading firmware to a single device

You can send an .RFU update to a device at any time; the device will wait for all I/O channels to become idle before cycling power.

HP recommends printing a configuration page prior to performing any firmware update so that the update can be verified by checking version numbers. To print the configuration page:

1. Open a web browser and type <http://www.xxx.yyy.zzz> where [www.xxx.yyy.zzz](http://www.xxx.yyy.zzz) is the IP address of the device.
2. On the "Information" tab, select "Configuration Page" from the left vertical menu.
3. Within the web browser, select File, Print in order to print the configuration page.

The elapsed time for an update depends on the I/O transfer time as well as the time that it takes for the device to reinitialize. The I/O transfer time will depend on a number of things including the speed of the host computer sending the update and the I/O method (parallel, or network).

**NOTE:** When the upgrade process has completed the HP 9200C Digital Sender will reboot. Once the device is back online view the Configuration Page to verify that the new firmware has been installed.

### Using FTP from Internet Explorer:

Take note of the TCP/IP address on the configuration pages.

**NOTE:** Make sure that the device is not in Powersave mode. Also make sure that any error messages are cleared from the control panel display.

1. Insure the "Enable folder view for FTP sites" box is checked on the Advanced tab under Tools/Internet Options.
2. Open the browser and type <ftp://192.168.0.90> (this is an example).
3. Use the TCP/IP address of the device from step 1). The display will show a folder labeled Port 1.
4. Open Windows Explorer and navigate to the directory where the .rfu file is located.
5. Drag the rfu file from Windows Explorer to the Port 1 folder in step 2.
6. Verify the device's control panel displays "Performing Upgrade"

**NOTE:** When the upgrade process has completed the HP 9200C Digital Sender will reboot. Once the device is back online view the Configuration Page to verify that the new firmware has been installed.

### Using FTP from a Windows Command Prompt:

Take note of the TCP/IP address on the configuration pages.

**NOTE:** Make sure that the device is not in Powersave mode. Also, make sure that any error messages are cleared from the control panel display.

1. Open a DOS command window on your computer.
2. Type ftp <TCP/IP 9200C ADDRESS>(for example, if the TCP/IP address is 192.168.0.90, type ftp 192.168.0.90).
3. Press ENTER on the keyboard.
4. When prompted for user name and password press ENTER for each.
5. Type *bin* at the >prompt.
6. Press ENTER.
7. Type: put <path> where <path> is the location where the .RFU file was downloaded from the Web. For example, type:

***put C:\9200C\9200C\_FW.RFU***

8. Press ENTER.
9. Type "bye" at the command prompt once the download process begins and the firmware is updated on the device
10. Press ENTER to exit the FTP session.

**NOTE:** When the upgrade process has completed the HP 9200C Digital Sender will reboot. Once the device is back online, print a Configuration Page and verify that the new firmware has been installed.

#### **Using FTP from a Mac OSX System:**

Take note of the TCP/IP address on the configuration pages.

**NOTE:** Make sure that the device is not in Powersave mode. Also, make sure that any error messages are cleared from the control panel display.

1. Open the Terminal application found in the Utilities folder; a terminal window will appear.
2. After the % symbol enter following information:

***ftp <<9200C's IP address>>***(example - % ftp 192.0.0.192)

The terminal window will list that you are connected to the device and the JD FTP Server is Ready.

3. Press the enter key twice. Both the Username and Password can be blank
4. Enter the following information after ftp>:

***put <<path/Firmware File Name.rfu>>***

(Example: ftp> put /users/computername/Desktop/9200C\_fw.rfu)

**Note:** To ensure that the entire proper path to the .rfu file is placed in the put command, type in "put" and a space, then click and drag the .rfu file on to the terminal window. The complete path to the file will be placed after the put command.

**NOTE:** When the upgrade process has completed the HP 9200C Digital Sender will reboot. Once the device is back online view the Configuration Page to verify that the new firmware has been installed.

#### **Using HP Web JetAdmin 7.x or 8.X**

Download the appropriate firmware update file from hp.com to a folder on your PC or the Web JetAdmin server.

1. Start Web JetAdmin 7.x or 8.x.
2. From the Navigation section of the screen select the "Device management" selection from the dropdown menu. This is located in the top left hand section of the window.
3. Choose the "Device List " folder and select one of the following depending on what list your device/s are located under:
  - All Devices
  - Ungrouped Devices
  - New Devices

You can also select the "Device Groups" folder if a device group has been created for the device(s) you want to update

4. Once you have selected your list or group that your device is located in highlight the device(s) you want to update from populated Device List or Device Groups List on the right hand section of the window.
5. Select "Update Printer Firmware" from the Device Tools drop-down on the top right hand section of the window.
6. Click the "Browse" button and locate the correct firmware image.
7. Select the file and Click on the "OK" button.
8. Select the "Update" button, found in the lower right portion of the window to start the update process.

**NOTE:** Do not turn device off during the update process! When the update process is complete, the HP 9200C Digital Sender will automatically reboot. If the firmware update process fails, Web JetAdmin will provide notification with a page (screen) of information regarding the reason(s) for failure. A link will be provided to attempt the process again.

## Expected device messages during an upgrade

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The device displays three messages during a normal update process:

Device message	Explanation
RECEIVING UPGRADE	Displayed from the time the device recognizes the beginning of an .RFU update until the time the device has verified the validity and integrity of the .RFU update
PERFORMING UPGRADE	Displayed while the device is actually reprogramming the DIMM with the .RFU update
WAIT FOR DEVICE TO REINITIALIZE	Displayed from the time the device has finished re-programming the code until it reinitializes.

**NOTE:** When the upgrade process has completed the HP 9200C Digital Sender will reboot. Once the device is back online view the Configuration Page to verify that the new firmware has been installed.

## Troubleshooting a Firmware Update

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The following table lists causes and results for possible interruptions to the firmware update.

CAUSE	RESULT
"Stop" or "Reset" button selected from the device control panel during upgrade.	No upgrade has occurred. Resend upgrade
Break in I/O stream during send (for example, parallel cable removed)	No upgrade has occurred. Resend upgrade.
Power cycle during RECEIVING UPGRADE	No upgrade has occurred. Resend upgrade.
Power cycle during UPGRADING DEVICE	Resend upgrade.
Power cycle during WAIT FOR DEVICE TO REINITIALIZE	Upgrade completed.

The following table lists possible reasons for the failure of a Remote Firmware Update and the corrective action to take for each situation.

REASON FOR FIRMWARE UPDATE FAILURE	CORRECTIVE ACTION
.RFU file corrupted	The device will recognize that the file is corrupted and will reject the update. Download the image again from the <a href="http://www.hp.com">http://www.hp.com</a> Web site and send the new file to the device.
Wrong device model	The device will recognize the model in .RFU file mismatch and will reject the update. Download the correct image from the <a href="http://www.hp.com">http://www.hp.com</a> Web site and send it to the device.
Update interrupted.	No updated has occurred. Resend the upgrade package.

## System Requirements

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The RFU upgrade requires a network, USB port connection

## Technical Assistance

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Some of the services below are provided for the United States only. Similar services to those listed below are available in other countries. See your HP 9200C Digital Sender user guide or call your local authorized HP dealer.

### Customer Support

See your HP 9200C Digital Sender user guide or call your local authorized HP dealer.

### Internet

An anonymous FTP library service is available worldwide for around-the-clock-access to drivers and technical support information for HP peripheral and computer products. Please note that paths may change without notice. Access the Internet or FTP address and use the menus to locate the software or support of your choice.

- URL for HP 9200C Digital Sender support: <http://www.hp.com/go/support>.
- URL for Access HP: <http://www.hp.com>

### **Additional Information**

Refer to your device's user guide for additional methods of obtaining software and support information.

## **Legal Statements**

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