

HP 9250C Digital Sender Firmware Readme

Product name(s): HP 9250C Digital Sender

Model Number(s): CB472A

This document contains information for the firmware revision:

Firmware Datecode: 20150731

Firmware Revision: 48.340.1

HP Fleet Release Designation CPE: 15.1 and any previous revisions if applicable.

IMPORTANT NOTE:

“This firmware version includes 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 printer or multifunction device it **CANNOT BE DOWNGRADED** to a firmware version earlier than 20120119 48.231.2

NOTE: ALL ENHANCEMENTS, FIXES/IMPROVEMENTS WITH PREVIOUS REVISIONS OF FIRMWARE ARE INCLUDED WITHIN THE MOST CURRENT REVISIONS. Documentation on previous releases follows information on this release.

Note: Since 11.4 (20120329 48.240.6) version onwards a new field **‘Authentication/Security’** has been added to classify embedded authentication and security related enhancements and fixes, which were classified under ‘Base product’ in the earlier revisions.

Description

Who needs this firmware?

Determining the current version level of your firmware

Enhancements and Fixes provided with this firmware revision

Enhancements and Fixes provided with previous firmware revisions

Installation Instructions

Updating firmware to a single device

Using the Embedded Web Server (EWS):

Using FTP from Internet Explorer:

Using FTP from a Windows command prompt:

For Mac OSX systems:

Using HP Web JetAdmin 7.x or 8.X

Expected device messages during an update

Troubleshooting a Firmware Update

System Requirements

Technical Assistance

Customer Support

Internet

Additional Information

Legal Statements

Trademark Notices

License and Copyright

Description

This Readme file provides specific installation instructions and other information you should know before you perform a firmware update for your HP 9250C 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 9250C Digital Sender.

Who needs this firmware?

Hewlett Packard provides firmware updates for your HP 9250C 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 9250C Digital Sender's control panel.
2. Select "Administration".
3. Select "Information".
4. Select "Configuration/Status Pages".
5. Select "Configuration Page".
6. Then, press "Show".

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: **20070614 48.021.6**

Enhancements and Fixes provided with this Firmware revision
20150731 48.340.1 CPE 15.1

ENHANCEMENTS:

Base Product:

- No new Updates.

Embedded Digital Send:

- No new Updates.

Embedded Jet Direct:

- No new Updates.

Authentication/Security:

- Security issue CVE-2014-3566 – SSLv3 POODLE (Padding Oracle on Downgraded Legacy Encryption) Vulnerability has been addressed.

FIXES OR IMPROVEMENTS:

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

Base Product:

- No new Updates.

Embedded Digital Send:

- No new Updates.

Authentication/Security:

- No new Updates.

Embedded Jet Direct:

- No new Updates.

Current firmware revisions included in this firmware bundle:

Device Firmware Revision

ACCESSORY	FIRMWARE VERSION
DS9250C	20150731 48.340.1
Embedded JetDirect:	V.43.92.FF
Copy Processor Board (CPB):	2.094 (0.0)
Scanner Control Board (SCB):	CMNPSL 0.4 (MFG)
Fleet Release Designation:	CPE 15.1

Enhancements and Fixes provided with this Firmware revision
20141228 48.301.7 CPE 14.2

ENHANCEMENTS:

Base Product:

- No new Updates.

Embedded Digital Send:

- No new Updates.

Embedded Jet Direct:

- No new Updates.

Authentication/Security:

- No new Updates.

FIXES OR IMPROVEMENTS:

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

Base Product:

- When installing SecureJet 7.0.5 with OXPd 1.6 enabled, the device will either crash with a 49.4c02 or the solution uninstalls itself.
- Custom status message set through HPAC, does not interleave with "Paused" message when device is paused.

- Missing characters in the Embedded JetDirect Configuration page when using Korean language.
- Intermittently hostname changes to NPIxxxx and is also set to 'Read only'.
- Unable to set the DNS value within WJA. In this case the IP address would work however there would be no load balancing for multiple time servers.
- Device crashes when using the hard reset key to stop scan.

Embedded Digital Send:

- Send to Email failure with Office365.
- Scan to Email over SSL fails when using Gmail SMTP server.

Authentication/Security:

- Device can encounter a 49.FF09 error during a Nessus vulnerability scan.
- Device can encounter a 49.FF04 error during a Nessus vulnerability scan.
- Telnet connectivity to device may be unavailable after a Nessus vulnerability scan.

Embedded Jet Direct:

- No new Updates.

Current firmware revisions included in this firmware bundle:

Device Firmware Revision

ACCESSORY	FIRMWARE VERSION
DS9250C	20141228 48.301.7
Embedded JetDirect:	V.43.82.FF
Copy Processor Board (CPB):	2.094 (0.0)
Scanner Control Board (SCB):	CMNPSL 0.4 (MFG)
Fleet Release Designation:	CPE 14.2

Enhancements and Fixes provided with this Firmware revision

20140723 48.293.1 CPE 13.3.5

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:

Authentication/Security:

- This firmware addresses the following security issue:
CVE-2014-0224 - SSL/TLS MITM vulnerability

Current firmware revisions included in this firmware bundle:

Device Firmware Revision

ACCESSORY	FIRMWARE VERSION
DS9250C	20140723 48.293.1
Embedded JetDirect:	V.43.39. IR105906
Copy Processor Board (CPB):	2.094 (0.0)
Scanner Control Board (SCB):	CMNPSL 0.4 (MFG)
Fleet Release Designation:	CPE 13.3.5

**Enhancements and Fixes provided with the previous Firmware revision
20140127 48.291.5 CPE 13.3****ENHANCEMENTS:**

Base Product:

- Firmware support for new smartcard reader redesigned to fit into all versions of the HIP pocket and as a stand-alone attachment for products that don't have HIP.

Embedded Digital Send:

- No new Updates.

Embedded Jet Direct:

- No new Updates.

Authentication/Security:

- No new Updates.

FIXES OR IMPROVEMENTS:

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

Base Product:

- Whenever a large document, which takes a long time to transmit, is scanned using OXPd 1.6 based Omtool AccuRoute and the network is congested, the scan job may fail after a few minutes.

Embedded Digital Send:

- Send to Network folder does not work on MAC 10.8.x.
- Scanned A4 document dimensions in TIFF file format are out of ISO standard.

Authentication/Security:

- The “Sign Out” button may not appear on the home screen for some users after authenticating on the device.
- Device identity certificates installed for email signing could be deleted with an improper or incorrect certificate password.

Embedded Jet Direct:

- Jet direct Gigabit link speed OID reports as 100FX (fiber) rather than 1000T.

Current firmware revisions included in this firmware bundle:

Device Firmware Revision

ACCESSORY	FIRMWARE VERSION
DS9250C	20140127 48.291.5
Embedded JetDirect:	V.43.39.FF
Copy Processor Board (CPB):	2.094 (0.0)
Scanner Control Board (SCB):	CMNPSL 0.4 (MFG)
Fleet Release Designation:	CPE 13.3

Enhancements and Fixes provided with this Firmware revision
20131213 48.282.8 CPE 13.2

ENHANCEMENTS:

Base Product:

- OZ devices now provide support for getting and setting paper sizes and device serial number in DSMP to enable DSS to fetch these values, instead of older SNMP method. DSS is removing all the SNMP dependencies for security reasons.
- Ability to remotely interact with the control panel on OZ SFPs, MFPs, Digital Senders and Document Capture Workstations

Embedded Digital Send:

- Enhanced firmware to respond cross-origin requests for OXPD 1.6 scan services.
- Ability to prompt user when LDAP Address Book search returns with multiple matching names.

Embedded Jet Direct:

- OIDs for SNMPv3 Context ID and Name are now available.

Authentication/Security:

- The ATA Secure Disk Erase for non-encrypted feature performs a disk hardware base overwrite erase. All data on the selected disk is permanently deleted and cannot be recovered.

The ATA DISK ERASE command is available in the Boot loader menu, in the INITIALIZE DISKS section.

FIXES OR IMPROVEMENTS:

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

Base Product:

- Fax icon was missing after firmware upgrade to 12.1.

- Russia and Venezuela time zones were off by a few hours on the devices after the newly introduced time zone changes in 2011.

Embedded Digital Send:

- PML support to configure the routing of all Digital send Jobs through Jet direct card or JDI interface, when both of them are present on the MFP.
- DNS server is queried every minute from home screen to resolve the SMTP host which causes high Network traffic. It is now obeys TTL value of DNS server.
- False Send to Network Folder screen on the control panel when job build is used.
- Lan Fax and Send to folder path not verified when Alias of the server is used.
- SMTP over SSL not working with Gmail gateway.
- Send to Network folder verification fails when FQDN is not used in Network Settings.
- Download File Link does not work after exporting Email encryption certificate.

Authentication/Security:

- Smart Card authentication could fail when performing CDP certificate revocation status lookups on servers using SHA1.

Embedded Jet Direct:

- No new Updates.

Current firmware revisions included in this firmware bundle:

Device Firmware Revision

ACCESSORY	FIRMWARE VERSION
DS9250C	20131213 48.282.8
Embedded JetDirect:	V.43.37.FF
Copy Processor Board (CPB):	2.094 (0.0)
Scanner Control Board (SCB):	CMNPSL 0.4 (MFG)
Fleet Release Designation:	CPE 13.2

Enhancements and Fixes provided with this Firmware revision
20130510 48.273.3 CPE 13.1

ENHANCEMENTS:

Base Product:

- No new updates

Embedded Digital Send:

- Ability to append an Active Directory attribute value from an LDAP lookup to a base UNC path and form a new user folder path.
- Two new options "Same as Original" and "Rotate Backside 180 degrees" have been added to Content Orientation for Email and Send to Folder applications.

Embedded Jet Direct:

- Ability for device to self-register with DNS via RFC 2136.
- Up to date encryption methods implemented.

Authentication/Security:

- The Printer Job Language (PCL) Device Access Command Enable/ Disable setting determines if the device accepts PCL device management commands. Clearing the checkbox disables PCL device management commands and provides additional security by preventing unauthorized modification of device settings.
- Support for SHA-256 hashing and AES-256 encryption introduced to meet regulatory requirements including NIST Special Publication 800-131a requiring SHA-256 hashing for digital signature generation. Passwords encrypted with AES-128 are automatically re-encrypted with AES-256 during the firmware upgrade.
- Support for TLS 1.1 and TLS 1.2 protocol introduced. TLS 1.2 provides enhanced security and support for SHA-256.

IMPORTANT NOTE: If TLS 1.0/SSL 3.0 is disabled, both the Client (web browser) and Server (MFP) must enable support for TLS 1.2 or EWS communication will be DISABLED. Most web browsers do NOT support TLS 1.2 by default.

IMPORTANT NOTE: No TLS 1.2 support for HP Web Jetadmin, HP Imaging & Printing Security Center and HP Digital Sending Software until Fall 2013. Disabling TLS 1.0/SSL 3.0 will disable compatibility with these solutions.

IMPORTANT NOTE: SNMP version 3 support for AES-128 and SHA-1 introduced in this firmware version. No HP Web Jetadmin support for SNMPv3 AES-128 and SHA-1 available until Fall 2013. Enabling these options will disable compatibility with HP Web Jetadmin.

FIXES OR IMPROVEMENTS:

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

Base Product:

- Error when setting DNS address in the Network Time field using Webjet Admin with 12.1 firmware.
- OXPd 1.4.2 fails to load on clean device with OZ 12.1 FW.

Embedded Digital Send:

- Email attachments are broken up incorrectly into smaller sizes, irrespective of specifying maximum attachment size.
- HELO and EHLO commands send IP address instead of domain name or server FQDN.
- The Device E-mail Address for Alerts is now editable

Authentication/Security:

- LDAP Authentication can now populate a domain field for OXPd applications that may require it. The domain name is obtained by parsing the top level of the configured LDAP search root.

Embedded Jet Direct:

- OXPd device discovery is limited.

Current firmware revisions included in this firmware bundle:

Device Firmware Revision

ACCESSORY	FIRMWARE VERSION
DS9250C	20130510 48.273.3
Embedded JetDirect:	V.43.30.FF
Copy Processor Board (CPB):	2.094 (0.0)
Scanner Control Board (SCB):	CMNPSL 0.4 (MFG)
Fleet Release Designation:	CPE 13.1

Enhancements and Fixes provided with this Firmware revision
20121220 48.261.4 CPE 12.2

ENHANCEMENTS:

Base Product:

- No new updates.

Embedded Digital Send:

- Ability to do send to email using TLS/SSL over SMTP.

Embedded Jet Direct:

- DHCP is only negotiated at boot, not when network is connected.
- Only certificates for root Certificate Authorities are accepted; certificates from intermediate certificates are rejected.
- Embedded Jetdirect network code is not separately downloadable and code-signed.

Authentication/Security:

- Devices are now able to use the AutoCC and Send2Me features with S/MIME encrypted send to email.
- The device Bootloader Password now uses the more secure SHA-256 hashing algorithm when stored by the system. The password is automatically re-encrypted with SHA-256 during the firmware upgrade.

- Embedded authentication methods can now be configured to allow users without populated email attributes to sign in.

FIXES OR IMPROVEMENTS:

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

Base Product:

- Changes made via EWS to Home Screen Layout show on the control panel initially, but lost after a reboot and revert back to previous or incorrect layout.
- 49.4CF0 errors with firmware version 48.131.3 (CPE 10.2) and 48.240.0B (CPE 11.3) as a result of "polling File System Password and Home Screen Applications" as part of simple device monitoring via WJA.
- Alerts subscribed to by the device are not received when SMTP port number is changed from 25 to any other.

Embedded Digital Send:

- Dummy 1KB file created during send to FTP scenario is also pulled by 3rd party archiving solution.
- MFPs sending DNS query to SMTP gateway once per minute causing intensive DNS traffic.
- Send to Network folder fails on MAC OS 10.7.
- If you use space in the user name under User PIN authentication in the EWS settings, MFP displays error message.
- "Registration failed. Invalid credentials" message while doing send to email where settings are configured by using Web Jet Admin 10.2.62227 templates.
- Administrator credentials for LDAP Authentication fails when tested in EWS if settings are applied before testing.

Authentication/Security:

- No new updates.

Embedded Jet Direct:

- The SNMP variable to require an exact match of the 802.1x server was not settable. Setting the OID: 1.3.6.1.4.1.11.2.4.3.20.19 gives an error.

Current firmware revisions included in this firmware bundle:

Device Firmware Revision

ACCESSORY	FIRMWARE VERSION
DS9250C	20121220 48.261.4
Embedded JetDirect:	V.43.21.FF
Copy Processor Board (CPB):	2.093 (0.0)
Scanner Control Board (SCB):	CMNPSL 0.4 (MFG)
Fleet Release Designation:	CPE 12.2

Enhancements and Fixes provided with previous Firmware revision

20120821 48.250.8 CPE 12.1

ENHANCEMENTS:

Base Product:

- A new Logging Infrastructure has been incorporated which could be utilized by all the components across the firmware.

Embedded Digital Send:

- Ability to change the FTP transfer mode in WJA.
- Windows Server 2008 support for MFPs in an ESNF-DFS send environment.
- Ability to encrypt and digitally send email.

Authentication/Security:

- The ATA Secure Disk Erase feature performs a Cryptographic Erase. All data on the selected disk is permanently deleted and cannot be recovered. It is available in the Security section of the EWS menus, in the Hard Drive and Mass Storage Security Settings section.

FIXES OR IMPROVEMENTS:

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

Base Product:

- Metadata file may have incorrect or missing data on DS9250C.
- Venezuela changed the country timezone from GMT-04:00 to GMT-04:30 as of December 2007. This change was not reflected in the EWS Time Zone options of HP LaserJet MFPs.
- Network Time Server settings unable to use load balancing hostname for time server.
- Intermittent 49.4C02 errors on MFPs.
- Upgrading the device to this firmware will change the "File Erase Mode" to default "Non-Secure Fast Erase" in case the "File System Password" is not set.

Embedded Digital Send:

- Digital Sending page counts show incorrectly in WJA.

Authentication/Security:

- The "Disable Reverse DNS Lookup" option does not properly disable reverse DNS lookups for devices configured to use Kerberos Authentication and "use device user's" credentials for LDAP binds.

Embedded Jet Direct:

- Encryption Strength is set incorrectly via WJA in CPE 11.3.
- CPE 11.3 does not send DHCP Option 12 (Hostname) on certain models.
- Device Announcement Agent (DAA) accepted invalid credentials from IPSC.

Current firmware revisions included in this firmware bundle:

Device Firmware Revision

ACCESSORY	FIRMWARE VERSION
DS9250C	20120821 48.250.8
Embedded JetDirect:	V.43.16.FF
Copy Processor Board (CPB):	2.093 (0.0)
Scanner Control Board (SCB):	CMNPSL 0.4 (MFG)
Fleet Release Designation:	CPE 12.1

Enhancements and Fixes provided with previous Firmware revision

ENHANCEMENTS:

Base Product:

- Ability to remotely flag the digital sender when a service call has been placed thus preventing multiple service calls being placed on a single event.
- Ability to collect all the logs for a device using the One Touch Button through EWS. Typical logs collected will be formatter logs, Configuration Pages, Event Logs, Crash.logs etc

Embedded Digital Send:

- Ability to create password encrypted PDF files for digital send jobs.
- Ability to set the default Send-to-Folder filename with current date and time-stamp.

Authentication/Security:

- Stored passwords for LDAP admin are now encrypted with AES256 encryption strength.

FIXES OR IMPROVEMENTS:

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

Base Product:

- Device may not be able to do clock drift correction and synch with Network Time Server after upgrading to CPE 10.3
- If a user starts to feed a document through the ADF, then realize that there is a document on flat bed, the ADF job can't be cancelled.
- In certain languages the OK button has been translated incorrectly and may be interpreted as "well" or "fine".
- Intermittent 49.4c01 errors with CPE 10.2 firmware.
- Numeric pad workflow shortcuts are unresponsive on control panel when using the DSS workflow forms.
- The device allows ASCII control characters under Asset Number option in Web Jet Admin.
- The "Please Wait" screen may appear and take an additional 3 seconds above and beyond the actual task length of the OXPd app.

Embedded Digital Send:

- Access verification before scanning does not work for invalid FTP path.
- Default File Name option in MFP Control Panel is taking the edited value even though Cancel button is pressed after editing it.
- Email notification states failed for both valid path Send to folder job and invalid path send to FTP job.
- File name set under Administrator->Default job options->Default Send to Folder->Default file name changes back to "Untitled" during a Send to folder job.
- Filename field changes to default folder path when you touch 'filename' field during digital send job.
- FTP jobs do not display file name and successful transmission string in notification mail.
- MFP shows 49.4C02/06 error, if user changes the MFP language in EWS Page and saves the default File name for Send to folder on the control panel.
- CPE 11.1 or later firmware doesn't cache send to folder mfp user credentials.

- Received xml metadata file of FTP displays folder user name instead of Authenticated Sender Name.
- Send to FTP verifies from EWS, fails sending from device
- The embedded Digital Send metadata files do not contain the sender's name/e-mail of the authenticated user.
- When a Quick Set is saved in Send to Network via the control panel, 'Content Orientation', 'Original Size' and 'Optimize Text/Picture' settings are not retained.
- When performing Send to FTP job, destination folder path is verified in EWS but fails to verify on control panel.
- When user selects the option to create folder based on username for multiple send to FTP jobs, the jobs get stored in nested folders instead of single username folder.

Authentication/Security:

- After 'Restore factory settings' is performed on the device, the Smart Card authentication window will not appear even when all settings are properly reconfigured.
- Configuring MFP LDAP settings to use verbose mode for email address lookups could cause the device to hang.
- Device firmware may not properly discover the digital certificate on some smart cards.
- Device PINs starting with a single leading zero (e.g. 055 or 040) may not be able to be configured on the device.
- User PINs outside the minimum or maximum length restriction could still be created.
- Some passwords stored in NVRAM cache were not properly encrypted.
- When the device is configured for walk up authentication, the device may crash with a 49.4C06 error when authentication is performed while the MFP is waking up from sleep mode.
- When the US Govt. SmartCard Authentication agent is installed on the device, certain digital send options may not be able to be reconfigured after "Restore Factory settings" is performed.

Embedded Jet Direct:

- No new updates

Current firmware revisions included in this firmware bundle:

ACCESSORY	FIRMWARE VERSION
DS9250C	20120329 48.240.6
Embedded JetDirect:	V.43.09.FF
Copy Processor Board (CPB):	2.093
Scanner Control Board (SCB):	CMNPSL 0.3
Fleet Release Designation:	CPE 11.4

Enhancements and Fixes from previous firmware updates

Enhancements and Fixes provided with this Firmware revision: 20120119 48.231.2, CPE 11.3

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 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

The following new functionality or features are provided by this firmware release:

There are no enhancements to base product functionality in this release

Fixes or improvements

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

- Send to folder jobs take more than 5 minutes when FQDN is used as shared paths in EWS.

- The device may generate a 49.4C02 error while performing embedded Send to Network Folder jobs to a DFS share.
- Some embedded Send to Network Folder jobs may fail due to an issue with properly resolving DFS folder paths via NetBIOS
- For devices configured to use the HP US Government SmartCard authentication solution (DOD CAC), send to network folder jobs could fail due to the device improperly sending the network credentials for the digital send job
- Send to FTP will generate 0 bytes files in FTP destination when the device is in ACTIVE mode and with a firewall enabled on the FTP server.

Embedded Jetdirect fixes and enhancements

- SSL vulnerable to a man-in-the-middle renegotiation attack
- Certificate Signing Requests specify 1024 bit keys; should specify 2048 bit keys
- The default key size for Certificate Signing Requests should be 2048 bits not, 1024
- A "Reflected XSS" is possible due to redirection to HTTPS
- Crash results when navigating to Refresh Rate in Networking pages
- Crash results when a duplicate IPv6 address is encountered
- SSL vulnerable to a Cipersuite downgrade attack
- Possible Telnet crashes
- Misbehavior when DHCP NAK received
- Secure@Install support is now available
- 802.1x failure to negotiate disables networking
- SNMPv3 privacy and authentication use keys rather than passphrases
- No SSL Proxy available to Auto-Send

Current firmware revisions included in this firmware bundle:

ACCESSORY	FIRMWARE VERSION
DS9250C	20120119 48.231.2
Embedded JetDirect:	V.43.09.FF
Copy Processor Board (CPB):	2.093
Scanner Control Board (SCB):	CMNPSL 0.3
Fleet Release Designation:	CPE 11.3

Enhancements and Fixes provided with this Firmware revision: 20110411 48.200.7, CPE 11.2

Enhancements

The following new functionality or features are provided by this firmware release, 20110411 48.200.7, CPE 11.2:

- Support for Windows Server 2008 has been added for DoD Smartcard Authentication
- Added the ability to send Autosend data over HTTPS for a secure link.
- You are now able to set separate and different "Default Job options for the following areas: Copy, Send to Email, Sent to Folder, Fax and DSS.
- AES 256 Encryption is now used for any passwords stored on the MFP for use with digital send jobs. This includes any digital sending-associated passwords that are cached (in cases where walk-up user credentials are supplied for any given job) or stored (in cases where administrator - or "public" - credentials are configured for any given job).
- Embedded Send to Network Folder quicksets are now able to save job settings
- Expanded support for Embedded Send to Network Folder jobs to Microsoft Distributed File System destination directories.

Fixes or improvements

Fixes or improvements for the following issues are provided by this firmware release, 20110411 48.200.7, CPE 11.2:

- LDAP Authentication could fail when 2-byte characters are returned in LDAP attribute fields
- Erroneous or confusing Send to Folder control panel messages when device is managed by DSS
- The Service menu is not accessible to the service technician when the Administration Icon has been hidden. A user can now authenticate via the EWS to access the Service Menu
- If the Administration Home Screen Icon has been hidden a Cold Reset will not bring it back to the default setting.
- When using some 3rd party OXP applications, concurrent authentication operations could be generated which would corrupt the authentication attempt
- Some Slovak Control Panel translations are incorrect
- Intermittently the MFP may get into a mode where the inactivity timeout stops working for all menus except the Administration Menu
- Send to Email may cause a 49 error when language is set to Japanese
- 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
- Unable to configure Folder Groups in the EWS with Firefox (version 3.0.5)

Current firmware revisions included in this firmware bundle:

ACCESSORY	FIRMWARE VERSION
DS9250C	20110411 48.200.7
Embedded JetDirect:	V.34.78.FF
Copy Processor Board (CPB):	2.093
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.90
Fleet Release Designation:	CPE 11.2

Enhancements and Fixes from previous firmware updates

Enhancements

The following new functionality or features are provided by this firmware release, 20110225 48.171.2, CPE 11.1:

- Administrators can now set the address book search priority for email address lookups
- "Send to Me" functionality, where send to email jobs are automatically sent to the authenticated user, can now be configured from the device embedded web server
- Provided the ability to send an alert e-mail from the device when the Auto Recovery feature has turned the device off and back on.
- PDF/A is now a configurable file type for embedded digital send jobs

Fixes or improvements

Fixes or improvements for the following issues are provided by this firmware release, 20110225 48.171.2, CPE 11.1:

Base product and embedded digital sending

- A 49.00FF error may be seen when performing embedded Send to Network Folder digital send jobs
- Kerberos authentication could fail when configured to use Administrator's (Public) credentials, and the credential set is entered in domain/username format
- A reboot may be required after adding a second Kerberos domain before Kerberos authentication would succeed
- The "Create Directory Based on Username" and "Only Allow Access to User's Own Directory" configures features for embedded Send to Network Folder may result in the creation of directories with improper security permissions
- The device priority for name resolution transport (DNS or WINS) can be configured for embedded Send to Network Folder
- 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
- Embedded Send to Network Folder digital send jobs may fail when the password encryption method is configured for Kerberos
- The control panel display may be clipped about 2 mm on the left side
- User credentials containing diacritic characters in the password field may not pass properly for embedded Send to Network Folder digital send jobs
- A non-clearable paper jam message may display when performing digital send jobs with the job build feature enabled
- A 49.4C02 Error may occur when performing LDAP email address lookups
- The Secure Erase Mode may be reported incorrectly if no disk is installed
- The device may not properly utilize the configured secondary DNS server when necessary for embedded Send to Network Folder digital send jobs

Embedded Jetdirect

- 802.1x implementation is incompatible with FreeRadius
- The checkbox for "Use Stateless DHCPv4 when Manually Configured" would always be checked after reboot.
- 802.1x improperly negotiates to MD5 Authentication
- FTP server welcome message terminates lines with linefeeds instead of carriage-return and line feed
- DNS resolves hostnames to IPv6 addresses even when IPv6 is disabled.
- Support for the Trace method is removed from the JDI EWS HTTP server in this and future releases

Current firmware revisions included in this firmware bundle:

ACCESSORY	FIRMWARE VERSION
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DS9250C	20110225 48.171.2
Embedded JetDirect:	V.34.78.FF
Copy Processor Board (CPB):	2.093
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.90
Fleet Release Designation:	11.1

Enhancements and Fixes from previous firmware updates

Enhancements in this firmware release (20101118 48.160.3):

- 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.
- Administrators can now specify a Default TO: address in the device Embedded Send to Email configuration

The following issues are resolved by this firmware release (20101118 48.160.3):

- EXPECTED DRIVE MISSING error message on control panel after upgrading firmware
- A change in the File Erase Mode may not be updated in the EWS without a power cycle
- Printers/MFPs are unable to FTP to another printer/MFP
- Send to Network Folder stops working after about 25 contiguous jobs
- DOD CAC encrypted emails would incorrectly have BASE64 characters of the encrypted attachment within the email message body

- When the device language is configured to Korean or Chinese, the "Change Language" button fails to function from within the Embedded Send to Network Folder UI
- 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 48.160.3)

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	V.34.77.FF
Copy Processor Board (CPB):	2.092
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.88
Fleet Release Designation:	10.4

Enhancements and Fixes from previous firmware updates

Enhancements in this firmware release (20100916 48.140.2):

- The option to add timestamps to destination file names is added for Send to Email and Send to Folder (Quick Sets menu for Send to Folder)
- Job Build mode has been added to Default Settings in the EWS

The following issues are resolved by this firmware release (20100916 48.140.2):

- 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
- Localization errors in Address Book messages when set to Greek

- Possible 49.4C02 errors when using an EIO hard disk drive (HDD) with the HP Access Control Smartcard Solution for U.S. Government, including the HP High Performance Secure Hard Disk.
- The left side of a sent PDF file may be clipped with A4 paper size

Current firmware revisions included in this firmware bundle (Version 48.140.2)

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	V.34.74.FF
Copy Processor Board (CPB):	2.090
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.88
Fleet Release Designation:	10.3

Enhancements in this firmware release (20100515 48.121.0):

- The EWS Security tab now has a checkbox to require the EWS password to see the EWS Information page

The following issues are resolved by this firmware release (2010515 48.121.0):

- MFP DNS behavior could cause the email icon to disappear from the control panel of the device
- Specifying an SMTP gateway by hostname may not work correctly on slow networks
- The username field for Kerberos authentication has been expanded to allow a maximum of 64 characters
- Possible 49.5001 errors with DSMP network traffic

Current firmware revisions included in this firmware bundle (Version 48.121.0)

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	V.34.74.FF
Copy Processor Board (CPB):	2.090
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.88
Fleet Release Designation:	10.2

Enhancements in this firmware release (20100306 48.111.4):

- Support added for Embedded Send to Network Folder Quick Sets
- Support added for a single Embedded Send to Network Folder alias to send to multiple network folder destinations
- Support added for the ability to configure up to ten Embedded Send to Network Folder address books
- Support added for import/export of Embedded Send to Network Folder address books
- A new feature has been added which will allow the administrator to configure the device to auto recover from intermittent 49.XXXX errors. With this release the feature will be enabled "ON" by default. To toggle this option, you will find the selection under the following menu: ADMINISTRATION>MANAGEMENT>Auto Recovery.

The following issues are resolved by this firmware release (20100306 48.111.4):

- Scan Setup Wizard does not work correctly with 2-byte languages
- 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
- Users are unable to specify scan filenames when the MFP is configured for Send to Network Folder through HP MFP Digital Sending Software and configured for Novell Authentication

- Possible 49.5001 errors when using Fax and/or email address books
- Incompatibility with Win Server 2008 and 802.1x
- CA certificate not accessible via SNMP
- IPP printer-URI-string miss-formatted
- DHCPINFORM transmit rate too high
- Possible network hang during DHCPv6 configuration when a configuration is received from a DHCPv6 server.
- User incorrectly allowed to install an Identity certificate instead of a CA certificate.

Current firmware revisions included in this firmware bundle (Version 48.111.4)

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	V.34.74.FF
Copy Processor Board (CPB):	2.090
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.88

The following issues are resolved by this firmware release (20091123 48.100.7):

- The sent PDF document size may exceed the standard A4 size when scanning A4 documents
- When "Auto Setting Reset" is configured to "Immediately Reset Device", a copy job may be performed instead of a faxing or digital sending job.

Current firmware revisions included in this firmware bundle (Version 48.100.7)

ACCESSORY	FIRMWARE VERSION
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Embedded JetDirect:	V.34.72.FF
Copy Processor Board (CPB):	2.088
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.88

Enhancements in this firmware release (20090904 48.091.3):

- The Wake-Up schedule can now be set with Sleep Mode disabled
- Numerical and Alpha characters have been added to the images displayed on the control panel during the "power on" process. If the device should stall, during the "power on" process the administrator should log the numerical and alpha characters and contact an HP regional support center for additional help. This should only be done if turning the power OFF and back ON for a second time does not resolve the stall
- 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 (20090904 48.091.3):

- 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
- Certain number combinations entered at the control panel as part of a digital send job would lock up the control panel
- 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
- User-defined media types do not display correctly in non-English languages
- A 49.4C02 error may be seen when configuring Kerberos authentication through HP MFP Digital Sending Software
- Kerberos Authentication may be successful in the user interface when incorrect credentials are specified in the MFP Embedded Web Server
- Installation of a Root CA Certificate no longer causes "Invalid Format" on other certificate installations.
- Access Control List contents now persist over reboots
- 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
- Allow Web Jetadmin Admin operations when the Embedded Web Server is disabled

Current firmware revisions included in this firmware bundle (Version 48.091.3)

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	V.34.72.FF
Copy Processor Board (CPB):	2.088

Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.88

Enhancements in this firmware release (20090604 48.081.2):

- Smartcard Solution for U.S. Government (previously MFP Smartcard Authentication Solution): Ability to Encrypt E-mail with senders PKI certificate, CDP (Certificate Revocation List Distribution Point) Certificate Validation, and support for FBI Proprietary Common Access Card Format.
- Port 9100 style print services are now available on port 9600

The following issues are resolved by this firmware release (20090604 48.081.2):

- Some Embedded Send to Network Folder jobs would result in corrupt PDF output in the destination directory
- 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
- Jetdirect now correctly responds with "unsupported" to an IPP Compression request
- Improvements were made to the IPP protocol to work better with an improved Microsoft IPP Client
- Excessive test packets are transmitted at power on
- Possible Kerberos authentication failures in mixed IPv4/IPv6 environments
- LPD queue may not clear correctly

Current firmware revisions included in this firmware bundle (Version 48.081.2)

ACCESSORY	FIRMWARE VERSION
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Embedded JetDirect:	V.34.71.FF
Copy Processor Board (CPB):	2.088
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.87

Enhancements in this firmware release (20081208 48.071.1):

- Device localization now available for Catalan

The following issues are resolved by this firmware release (20081208 48.071.1):

- Double spaces are inputted if Korean keyboard layout is selected (default)
- When added to HP Digital Sending Software and configured for Novell Authentication, the control panel user interface may shift off screen
- Resend RFU via USB Dev Port message may appear on the Front Control panel.
- Document Feeder Kit alerts are missing in the EWS.

Current firmware revisions included in this firmware bundle (Version 48.071.1)

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	V.34.68.FF
Copy Processor Board (CPB):	2.088
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.72

Enhancements in this firmware release (20080804 48.061.6):

- Support added for HP High-Performance Secure Hard Disk (Encrypted Hard Disk accessory)
- 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
- Users can now set the name of the Send to Email attachment
- Timeout for send to FTP jobs increased to better handle network latency

The following issues are resolved by this firmware release (20080804 48.061.6):

- Some Korean character combinations appear as if they are being combined with other characters on the HP Easy Select Control panel.
- ESD event causes Host USB peripherals to become unresponsive
- Deleting and reconfiguring a Kerberos default realm may require a disk initialization when only one realm is configured on the MFP
- Kerberos authentication can now be properly configured using the latest version of WebJetAdmin 10.X
- Embedded Send to Folder jobs may revert to 8-bit from 1-bit black and white after any digital send job
- A 49.5001 error may occur when the "Use Address Book Entries Only" feature is enabled under Digital Sending -> Email Settings
- The default keyboard for user and password authentication login is full-width when set to Japanese.
- The Digital Sending log file saved in the Log menu of the EWS Digital Sending page may contain erroneous characters when set to Japanese localization.
- A Prompt is missing that tells the user to hold the hard keys to select a candidate. This is seen when using Chinese IME for selecting a candidate when using the hard key button associated to the candidate.
- When the HP Easy Select Control panel is set to the Greek language you will see incorrect characters for Edge to Edge found under the Copy Icon
- A 49.FF03 error may occur when performing a digital send job using Kerberos authentication

- Multiple page ESNF jobs fail when the HP Easy Select Control panel language is set to Korean or Simplified Chinese
- Japanese search is not available for searching Fax Speed Dial.
- The list presented for the selectable keyboard defaults to the beginning of the list instead the selected layout.
- The label of "Name" for the Address Book Detail dialog is not consistent with the string of the entry label.
- The help page for the Send To Folder menu of EWS Digital Sending page displays garbled when user opens with a localized Japanese version of an internet browser.
- The Date and Time is displayed incorrectly on the HP Easy Select Control panel when the languages' is set to Korean
- Stroke has been removed from the sequence of input methods for Traditional Chinese using the soft touch keyboard
- Conversion list includes candidates of unexpected prediction when Simplified Chinese IME is the default.
- Conversion list includes candidates of unexpected prediction when Traditional Chinese IME is the default.
- Korean input keyboard doesn't show all the characters when the SHIFT key is on.
- Japanese IME doesn't move cursor to the first part of the string if the rest of the string includes only katakana characters.
- Korean input method doesn't construct a word with mixture of consonants and vowels. It doesn't manage the final consonant, called patch'im, for example
- Under rare circumstances a user may not be able to initiate a send to FTP job if one is already in progress
- The explanations provided for Slovak on-line control panel information was extremely abbreviated
- When using the Globe icon to change languages, response may be slow in Asian languages. After the initial selection of a language, it is now cached.
- EWS may hang if the domain values are not set first in WebJetAdmin

- Some Japanese Full-width texts on the Fax Header are covered by black in the bottom half area.
- The HP Easy Select control panel may become unresponsive if the device is busy with other activities such as printing, digital sending or faxing.

Current firmware revisions included in this firmware bundle (Version 48.061.6)

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	V.34.68.FF
Copy Processor Board (CPB):	2.088
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.72

Enhancements in this firmware release (20080404 48.051.7):

- Common Access Card authentication added. NOTE: Version 1.21 of the CAC Authentication Agent is required.
- Language support has been added for the following languages: Romanian, Croatia, Slovenian, Slovak and Greek
- Embedded Send to Network Folder can now be configured to send to a user's home directory
- Embedded Send to Network Folder has added support for Distributed File System (DFS) folder destinations
- Kerberos Authentication can now be configured to support multiple domains
- Address Book Search is now available in Japanese
- The user can now choose an alternative keyboard layout when using the keyboard that is presented with any feature that use one. The icon that allows this selection can be enabled from the following HP Easy Select Control Panel Menu: Administration>Device Behavior>Keyboard Layout Button

- A wizard is now available from the control panel to assist in the configuration of send to email. This can be accessed from the following control panel menu: Administration -> Initial Setup -> Email Setup -> Email Wizard
- 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.
- With the release of this firmware roll HP has added IME (input Method Editor) functionality for the following languages: Japanese, Traditional Chinese, Simplified Chinese and Korean. Functionality added includes:
 - Use of the input keyboard on the control panel
 - Language specific input keyboard
 - 10-key keypad support using an overlay
 - Enter and converting of text
 - Use of the Address Book
 - Adding entries in the Address Book
 - Searching for entries in the fax Address Book
 - Auto-complete of an e-mail address
 Visit www.hp.com for the Asian Addendum Manual to learn more about this feature or contact you local in country Hewlett Packard support provider.

The following issues are resolved by this firmware release (20080404 48.051.7):

- 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
- Character limit for custom email message subject has been increased for Embedded Send to Email
- Back Slash/ Arrow Key is missing in keyboard layout for Czech, Danish and Finnish.
- Specifying a filename disables the create directory based on username feature in embedded send to network folder
- "Warming Up" improperly localized in Russian
- Initial setup of send to home directory causes erroneous "Access Denied" notification in HP Digital Send Software

- MFPs could generate truncated Send to FTP output
- SMTP server can't be configured by hostname from WJA
- MFPs could pass credentials multiple times when performing send to network folder
- Embedded Send to Network Folder could fail with a 49 error when sending a PDF file to a folder with a long folder name
- When configured to send to home folder in HP Digital Sending Software, the folder destination would not retain after changing the filename
- Missing characters of language menu items in Japanese mode.
- In Japanese some of the non Japanese characters are not rendered correctly
- The characters + - () [] * are not available in the Fax address book fax number field
- Use Defaults button in EWS Custom DST settings does not work.
- EWS Localization in Autosend is not Consistent for the Word "Test" in Portuguese
- Users options are not loaded properly when login and return to home menu and going to email options again.
- Label of "Name" Address Book Detail dialog is wrong and not consistent with the string of the entry label. This is a Japanese specific behavior
- TIFF file generation reverts from 1-bit to 8-bit after sending non-fax digital send job
- Send to folder fails when the folder path is too long to display on the Digital Sender control panel
- When adding Fax speed dial numbers there there is no virtual keyboard to enter any characters for the search with the Korean/Japanese languages
- For Chinese, only digits 0-9 can be entered to search speed dials.
- Keyboard layout cannot be changed on the control panel for Embedded Send to Network folder filename
- Keyboard Layout menu is not localized.

- PCL files generated for LANFax (with HP Digital Sending Software) may be corrupted.
- PCL files generated for LANFax (with HP Digital Sending Software) are always compressed.
- The device does not prompt for billing code when sending fax via LANFax (Digital Sending Software).
- From the control panel, Fax -> Address Book -> Add is not present for the first time after configuring LanFax in HP Digital Sending Software

Current firmware revisions included in this firmware bundle (Version 48.051.7)

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	V.34.12.FF
Copy Processor Board (CPB):	2.088
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.70

Enhancements in this firmware release (20071211 48.041.0):

- Administrators can now specify the SMTP port used for embedded send to email. This option is now available under Digital Sending>Email Settings in the embedded web server.
- The administrator can now protect a range of fax Speed Dials from user editing. (Fax Speed Dials are available when the unit is added to a HP Digital Sending Software server configured for LANFax, InternetFax, or Windows 2000 Fax)

The following issues are resolved by this firmware release (20071211 48.041.0):

- Authentication Manager help page incorrectly displayed DSS Secondary Email as DSS Secure Email

- The help screen under Digital Sending>Email Settings was not up to date with some features
- The help page under Settings>Security of the embedded web server has been modified to better reflect product functionality
- If the MFP's configured time zone is changed to or from a time zone which does not observe Daylight Savings Time, Kerberos Authentication can fail until the MFP is power-cycled
- When the Devices Embedded Web Servers language is set to Japanese or Korean the selections for the Security Help page will not be localized correctly if accessed through the following path: -> Settings -> Security -> Help
- When an Auto Send file is sent from the device, the file will not open correctly in any XML viewer
- "Save Settings...?" screen not localized in Korean
- When attempting embedded send to network folder, the MFP will become unresponsive if the server hosting the destination directory is unavailable
- The HP Easy Select Control panel may lock up or freeze when manipulating the daylight savings time settings.
- 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.
- You may see a 30.1.25 scanner error when scanning a duplex job and find a paper jam which is cleared quickly.
- 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/LDAP Settings
- Possible control panel hang when changing time zones

- A second Restore Factory Settings operation may not return control panel language switching settings to default values.
- 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
- HP Easy Select Control panel may lock up or freeze when MFP is not in use.
- When the control panel language is set to Turkish, Korean, Norwegian or Swedish the selection for "DISPLAY" will not be localized correctly when it is viewed through the Administration> Management> Network Address Button menu selection.
- When Kerberos Authentication is configured for embedded send to network folder, the filename and folder path fields are transposed at the control panel
- Bottom row of keys on soft keyboard appear as upper case instead of lower case when keyboard layout set to French Canadian. Only applies to firmware revision 48.031.3.

Current firmware revisions included in this firmware bundle (Version 48.041.0)

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	V.34.12.FF
Copy Processor Board (CPB):	2.088
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.70

NOTES for 20070924 48.031.3:

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 (20070924 48.031.3):

- 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 Device Behavior menu. A new keyboard layout option of Swiss/French (QWERTZ) is also added.

The following issues are resolved by this firmware release (20070924 48.031.3):

- If sending a document directly from a device to another printer which is able to handle direct PDF print jobs you may see a preceding page which has the word "Send to FTP test file" written on it.
- An extra "+" character displays in the time zone configuration display
- A 49.4C27 may occur if a hardkey is pressed quickly after confirming authentication credentials
- Added Formatter Boot Loader version to Configuration Page

- Front Panel Configuration Page view has incorrect translation for text of "Configuration Page" in Czech
- Date Formatting was incorrect in certain languages
- 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.
- Embedded Send to Folder metadata files contain no carriage returns.
- An Embedded Send to Network Folder Job may fail when sending across different subnets.
- You may receive an error while trying to delete an email distribution list which has long entries.
- Localization errors in EWS pages when Language = Russian
- Excessive DNS traffic when resolving LDAP, SMTP, and KDC server IP addresses may cause the MFP to become slow or unresponsive
- When sending an email, the time on the attached image's header may be ahead by one hour of when the email is sent.
- Multiple page Embedded Send to Network Folder jobs may fail when the device is set to Korean or Simplified Chinese.
- 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.
- The regional setting will advance one location when selecting the setting of a new unit through the HP Easy Select Control panel. For example: when setting the region to Canada the regional selection will advance to Chile
- Setting time zone to GMT-12:00 may not work correctly

- Send to Network Folder fails if the default filename is changed within the same session after sending a job with the original default filename
- Special Characters are not accepted in an MFP device password
- Display does not go back to the home screen after time out or pressing Reset from the Time Zone screen
- Unable to send to ad-hoc folder destination
- When Web Jetadmin is used to display the Asset number or any other variable on the HP Easy Select Control panel, a control character will appear on the left and right side of value

Current firmware revisions included in this firmware bundle (Version 48.031.3)

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	V.34.12.FF
Copy Processor Board (CPB):	2.088
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.70

Enhancements in this firmware release (20070614 48.021.6):

- The ability to control the order in which the HP Easy Select Home Screen icons are displayed and the ability to remove them for administrative purposes has been added into the device's Embedded Web Server. The control of this new feature is found under the "Home Screen Setup" selection found on the "Settings" tab of the devices Embedded Web Server.
- Embedded send-to-folder can now be configured such that user directories can be locked down, limiting access to the user that owns the directory.
- The ability to provide four additional languages that the walk up user can choose from at the HP Easy select control panel has been provided. The user will press the new globe icon on the control panel and choose their language. The amount of time the language is presented before going back to the default language is determined by the devices Inactivity Timer. The ability to enable this feature and to define the languages

that are available are provided in the device's Embedded Web Server. The control can be found under the "Home Screen Setup" selection found on the "Settings" tab.

- Added support for e-mail PDL's and fax speed dials to Simple Device Address Book.
- Added support for %username% substitution in the Embedded Send to Folder folder path.
- 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 (20070614 48.021.6):

- Time stamp information missing from the device event log.
- No support for localized characters in the COMPANY NAME field of the FAX HEADER in the EWS (only ASCII characters 32 to 127).
- No warning if user enters an email address and selects Yes for "Add to Local Address Book?" and address book is full.
- EWS General Setting tab Help is not localized to selected EWS language.
- Authentication Manager Help does not list Stored Job as a valid action.
- Broken help links in some languages for Simple Address Book.
- 3rd party solutions developed using Simple Document Capture (SDC) will now work correctly when the device is added to the Digital Sending Software (DSS).
- DSS "Send To Home Folder" fails if the filename is changed by the user.
- Kerberos authentication fails when user resides in child domain.
- Device may use Simple Bind for LDAP Addressing although it is configured for Kerberos Bind.
- Asian Localized languages show General Device Access Failure in EWS.
- MFP will roll to a different NTP server when configured by hostname if named server is not available.
- Email subject line becomes corrupted when end users modify the default subject text. This may cause the emails to be filtered as spam by email servers.
- When the HP Easy Select Control Panel is set to Japanese the date and time are not presented correctly.
- Long email addresses are truncated when they are added to the local address book. The limit is now extended to 64 characters.

- A 49.FF09 may be seen on the HP Easy Select control panel when updating the devices firmware when devices language is set to one of the following languages (Japanese, Chinese, Korean).
- Auto Settings Reset time is based on Inactivity Timeout rather than Auto Settings Reset timer.
- 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.
- When BCC is disabled for send-to-email, the BCC field is not grayed out.
- Device improperly wakes from sleep mode if either the sleep delay timeout is triggered or if the Sleep button is pressed.
- In the Embedded Web Server, when conflicting settings are selected, a "?" is displayed instead of an appropriate error message.
- Incorrect placement of "Job Held Timeout" and "Job Retention" settings on Security Settings page in Embedded Web Server.
- Incorrect Swedish localization for SMTP authentication settings in Embedded Web Server.
- Time formats not displayed correctly for Chinese, Japanese and Korean languages.
- When devices Embedded Web Server is viewed in the Japanese language, the Event Log Page displays garbage characters in the "Description and Personality" field.
- Multiple keyboard issues involving Enter, Space, Backspace and Shift-tab keypresses.
- Chinese language localization issues on Embedded Web Server Usage Page.

ACCESSORY	FIRMWARE VERSION
Embedded JetDirect:	V.34.12.FF
Copy Processor Board (CPB):	2.088
Scanner Control Board (SCB):	CMNPSL 0.3
Bootloader:	2.69

Enhancements and Fixes from previous firmware updates

This is the first firmware update since the product release.

Installation Instructions

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 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 9250C 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 9250C 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 9250C 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:\9250C\9250C_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 9250C 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 <<9250C'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/9250C_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 9250C 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 9250C 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

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 9250C 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

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 http://www.hp.com 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 http://www.hp.com Web site and send it to the device.
Update interrupted.	No updated has occurred. Resend the upgrade package.

System Requirements

The RFU upgrade requires a network, USB port connection

Technical Assistance

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 9250C Digital Sender user guide or call your local authorized HP dealer.

Customer Support

See your HP 9250C 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 9250C Digital Sender support: <http://www.hp.com/go/support>.
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Additional Information

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

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====

```
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 * hash.c: chained hash tables
 *
 * Reference: Your favorite introductory book on algorithms
 *
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 *
 * Author: breese@users.sourceforge.net
 */
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 *
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 *
 * Author: Gary.Pennington@uk.sun.com
 */
```

====

```
/******
 *
 * $Id: trio.h 1886 2003-04-03 15:28:28Z veillard $
 *
```

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