Release Notes: LW80.xx.P251

READ THIS FIRST: Special notes and considerations

- **Firmware upgrade guidelines:**
  - This firmware release is intended for all customers
- **Firmware downgrade warning:**
  - It is strongly recommended that a firmware downgrade is NOT performed.
  - Downgrading firmware from newer firmware ECs to older firmware ECs will result in the loss of Apps, Security Features, and Settings.
- **Ensure the firmware you download is the correct one for the product you have**

CUSTOMER RELEASE NOTES:
EC8.0, LW80.xx.P251, for the following devices

Changes in LW80.xx.P251 (since LW80.xx.P235):
Security Issues Addressed:
- CVE-2023-40239 XML external entity vulnerability
- CVE-2023-50735 - Heap corruption vulnerability in the PostScript interpreter
- CVE-2023-50736 - Memory corruption vlunerability in the PostScript interpreter
- CVE-2023-50734 - Buffer overflow vulnerability in the PostScript interpreter
- Updated Java certificates
- Update open source packages
- Various other security improvements

Field Issues Addressed and Other Improvements:
- Fix for a 900.15 permanent crash that results from the Fax Logging Level being set too high for too long
- Updates to etherFAX
- Improvements to fax debug logging
- Fix for issue where SNMPv3 queries become unresposive after 248 days of uptime
- Fix for an issue where policy updates through LDD intermittently fail
- Fixes for various 900 errors
- Fixes for incorrect output or error pages with certain PCL5 and PDF print jobs

Changes in LW80.xx.P235:
Security Issues Addressed:
- Security improvements based on internal testing
- CVE-2023-26063 Postscript Buffer Overflow (type confusion)
- CVE-2023-26064 Postscript Buffer Overflow (out of bounds write)
- CVE-2023-26065 Postscript Buffer Overflow (integer overflow)
- CVE-2023-26066 Postscript Buffer Overflow (improper stack validation)
- CVE-2023-26070 SNMP input validation vulnerability

Field Issues Addressed and Other Improvements:
- Upgrade Scan to Network application to v4.9.26
- Usability improvements for panel
- Change to increase SMTP's password length to 128 characters
- Multiple fixes for incorrect output when printing certain PDF or PostScript print jobs
- Fix for cipher list failing to update when saved
- Fix to export the printer's settings file
- Fix inability to access the printer's remote operator panel due to an improperly selected certificate
- Add autoLogoutDelay setting to single function printers
- Improve certificate auditing with respect to imported certificates
- Fix for a "PDF Error 119: Missing Font Information" error being generated for certain PDF print jobs
- Fix for an inaccurate "Warning: IllegalMediaSize" PCL-XL error
- Add translations for some EWS labels
- Update Java certificates
- Disable trailing dot to the CN on the certificate subject when the Domain Name field is blank
- Fix inconsistency of button name in "Scan Successful" screen -----> change to "Usability improvements for panel"
- Allow the Email Address field to show email addresses longer than 17 characters
- Fix inconsistent behavior when changing the "Fax Transport" setting from "Analog" to "etherFax" and vice versa
- Fix to ignore the "Auto Answer" setting if the "Fax Transport" setting is "HTTPS Fax"
- Fixes for multiple sources of 900.00 errors, some causes include:
    - A potential 900.43 Firmware Error when running out of paper with a PostScript print job
    - A potential 900.42 Firmware Error with respect to linked output bins
    - A random 900.00 Firmware Error due to an IPP memory leak
    - 900 error when performed a specific PDF printing
    - 900 Full Page Image Reader error when the user tried to scan on certain MFP model

Changes in LW80.xx.P210:
Security Issues Addressed:
- CVE-2021-44734 Embedded web server input sanitization vulnerability
- CVE-2021-44737 PJL directory traversal vulnerability
- CVE-2021-44738 Postscript Buffer overflow
Field Issues Addressed and Other Improvements:
- Fix for 900.80 error on MX6500 devices
- Resolve an issue where copy "overlay" did not function correctly when panel language is set to a DBCS language
- Resolve multiple issues with some PDF print jobs resulting in incorrect output

- Fix for a 900.43 error when printing certain postscript print jobs
- Multiple fixes for some PCL5 print jobs resulting in incorrect output
- Fix for various 912.45 errors and 900.00 errors

Changes in LW80.xx.P013:

Security Issues Addressed:
- Cross Site Scripting Vulnerabilities
  - CVE-2019-19772
  - CVE-2019-19773
- Stored Cross Site Scripting Vulnerabilities
  - CVE-2020-10093
  - CVE-2020-10094
- TLS Protocol Vulnerability – CVE-2019-1559
- Cross Site Request Forgery Vulnerability – CVE-2020-13481
- Updated Java certificates
- Patched OpenSSL for security improvements

Field Issues Addressed and Other Improvements:
- Resolved an issue where PKCS12 file import failed due to a leading blank space
- Fix for an issue where remote op panel session was unable to be reopened after the initial session was disconnected
- Mopria Scan Certification on MFP's
- Remove Google Cloud Print items since it has been decommissioned by Google
- Fixes for various 900.xx crashes
- Wireless stability improvements
- Fix for issues resolving hostnames
- Improvements to Fax, FoIP, and Network Fax functionality
- Multiple translations updates
- Improve keystroke detection on remote operator panel
- Update included Scan to Network version to 4.9.25 for touch screen MFP's
- Improvements for scan to folder on a DFS share
- Fixes for sending emails to logged-in user (native workflows and apps)
- Multiple card reader behavior improvements
- Improve messaging of MS91x/MX91x devices with high capacity feeders attached that were not able to print after waking from sleep
- Enhanced Device Statistics reporting
- Multiple fixes for PDF errors, missing or incorrect rendering, and 900.xx crashes due to job content
- Multiple fixes for PS errors and 900.43 crashes due to specific print jobs
- Various fixes for PCL5 and PCLXL print job errors, missing characters, incorrect output, and 900.xx crashes
- Improved memory utilization

Supported Models:

Model	Firmware Version
Mono Single Function Devices	
MS310d, MS310dn (LED)	LW80.PRL.P251
MS312dn, MS317 (2-Line)	LW80.PRL.P251
MS315dn (2.4")	LW80.TL2.P251
MS410d, MS410dn (2-Line)	LW80.PRL.P251
MS415dn, MS417 (2.4")	LW80.TL2.P251
MS51x Series, MS610dn, MS617 (2.4")	LW80.PR2.P251
MS610de (4.3" eTask)	LW80.PR4.P251
MS71x Series (2.4")	LW80.DN2.P251
MS810, MS811, MS812, MS817, MS818 (2.4")	LW80.DN2.P251
MS810de (4.3" eTask)	LW80.DN4.P251
MS812de (4.3" eTask)	LW80.DN7.P251
MS91x Series (4.3" eTask)	LW80.SA.P251
Mono Multi Function Devices	
MX31x Series (2.4")	LW80.SB2.P251
MX41x Series, MX51x Series (4.3" eTask)	LW80.SB4.P251
MX61x Series (7.0" eTask)	LW80.SB7.P251
MX71x Series, MX81x Series (7.0"/10.0" eTask)	LW80.TU.P251
MX91x Series (10" eTask)	LW80.MG.P251
MX6500e	LW80.JD.P251
Color Single Function Devices	
CS31x Series (2-Line)	LW80.VYL.P251
CS41x Series (2.4")	LW80.VY2.P251
CS51x Series (4.3" eTask)	LW80.VY4.P251

Color Multi Function Devices	
CX31x Series (2.4")	LW80.GM2.P251
CX41x Series (4.3" eTask)	LW80.GM4.P251
CX51x Series (7.0" eTask)	LW80.GM7.P251

Additional notes and considerations:

- **MS310d, MS310dn, MS312dn, MS317, MS410d, and MS410dn devices**:
  - If device firmware is EC5 or older, update the device firmware first to LW50.PRL.P593 (contact Lexmark Technical Support for the file). After the device reboots, proceed to update firmware to EC6.0 or newer.
  - This intermediate update is necessary due to increased code size of EC6.0 or newer and memory usage during code updates. If attempting to load EC6.0 or newer code over EC5 or older code other than LW50.PRL.P593, it can take up to or more than 90 minutes to update or it may fail completely due to an out of memory condition.
- **Non-eTask Models:**
  - If the device was originally manufactured with EC1 code or earlier, it is possible that the DBCS (Japanese, Simplified Chinese, Traditional Chinese, and Korean) characters may go missing from the front panel display after updating firmware.
  - To fix this, a updfonts.fls file needs to be sent to the device. This is a smaller version that fits in the space available with no loss of characters. Please see TE612 or contact Lexmark Technical Support if this file is needed.
- **Downgrading to EC4.0 or EC4.05:**
  - Due to changes in EC4.0 and EC5, do NOT downgrade firmware from EC5 or newer directly to EC4.0 or EC4.05 based code. EC4.0 and EC4.05 code levels have names like LW40.xx.P4xx. This will cause a non-clearable 900 Service error. Contact the TSC for instructions on how to clear this error.
  - This warning includes installing a DLE with EC4.0 or EC4.05 code into a device that currently has EC5 or newer code.
  - Code levels earlier than EC4.0 can be sent to EC5 level devices without causing a service error.

- To downgrade EC5 or newer code to an EC4.0 or EC4.05 level, you must first load an EC4.1 based code. EC4.1 code levels have names like LW41.XX.P4xx. Once the device is at an EC4.1 level, EC4.0 code can be sent.
- As mentioned in the firmware FAQ posted on the support site, we do not officially support downgrading firmware.