

## Release Notes: LW90.xx.P218

### READ THIS FIRST: Special notes and considerations

- **Firmware upgrade guidelines:**
  - This firmware release is intended for all customers
  - This release is not available for all products within this generation of devices, see the list at the bottom of this document for a full list of the products supported
- **Firmware downgrade warning:**
  - Firmware downgrade is no longer supported, if there is a reason firmware downgrade is required, please contact Lexmark Technical Support
  - Downgrading firmware can result in exposure to known security vulnerabilities and 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:

EC9.0, LW90.xx.P218, for the following devices

### Changes in LW90.xx.P218 (since LW90.xx.P207):

#### Security Issues Addressed:

- CVE-2024-11344: Type confusion vulnerability in the Postscript interpreter
- CVE-2024-11345: Heap-based memory vulnerability in the Postscript interpreter
- CVE-2024-11346: Type confusion vulnerability in the Postscript interpreter
- CVE-2024-11347: Integer overflow vulnerability in the Postscript interpreter
- Upgraded open-source components to apply latest security patches
- General security hardening

#### Field Issues Addressed and Other Improvements:

- Fix for PCL-XL error page not printing when needed (nothing is printed)
- Fix for an issue with DDNS registration which caused inability to print due to loss of DNS A records
- Fix for an issue with static IPv6 addresses causing loss of communication with device after every reboot
- Fix for a PDF Error 142 occurring for some large PDF print jobs
- Fix for a cause of PDF Error 19
- Fix for an issue with the last page of output missing on certain duplexed PDF print jobs
- Fix for an issue with updating an app on a device with certain security configurations
- Updated Java certificates
- Change to support up to TLS1.3 through an http upgrade on port 631 used for AirPrint Discovery
- Change to provide the correct response when a firmware update is done using the multipart option in curl

- Improvements for multiple sources of 900 errors, some causes include:
  - Printing specific PDF print jobs
  - Issue with incoming fax
  - Parallel card installed

### **Changes in LW90.xx.P207 (since LW90.xx.P015):**

#### Security Issues Addressed:

- CVE-2023-50735 - Heap corruption vulnerability in the PostScript interpreter
- CVE-2023-50736 - Memory corruption vulnerability in the PostScript interpreter
- CVE-2023-50734 - Buffer overflow vulnerability in the PostScript interpreter
- Update open source packages

#### Field Issues Addressed and Other Improvements:

- Fix for an issue with smart card authentication failing
- Fix for an incorrect output when printing certain PCL5 jobs
- Fix for an issue where policy updates through LDD intermittently fail

### **Changes in LW90.xx.P015:**

#### New Features:

- Add support for TLS1.3
- PrintCryption v2 support – requires driver and app
- Button under “Update Firmware” setting on the device operator panel and web page allows an easy option for installing firmware updates
- Administrator level setting, not configurable at job launch, to automatically split a large Scan to Email job into multiple smaller files/emails to reduce overall email size – note: this setting works with Native Scan to Email functionality and may not be available if using other Apps or workflows
- Move scan data to utilize TLS
- Support PDF/A-2u archival PDF format
- Add support for ECC\_P256 (prime256v1) openssl private key generation
- Add support for 3072-length keys
- Add/modify EULA URL in firmware update messages for all supported models listed in this document

#### Security Issues Addressed:

- Prevent firmware downgrades to protect against security exploits
- CVE-2023-40239 XML external entity vulnerability
- Updated Java certificates
- Update OpenSource 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
- Fix for a device intermittently losing page counts when controller card is replaced
- Updates to etherFAX

- Fix for an issue where Home Screen Customization was not available on the device web page for some devices
- Fixes for various 900 errors
- Fixes for issues with various PDF test cases

#### Supported Models:

Model	Firmware Version
<b>Mono Single Function Devices</b>	
MS315dn (2.4")	LW90.TL2.P218
MS415dn, MS417 (2.4")	LW90.TL2.P218
MS51x Series, MS610dn, MS617 (2.4")	LW90.PR2.P218
MS610de (4.3" eTask)	LW90.PR4.P218
MS71x Series (2.4")	LW90.DN2.P218
MS810, MS811, MS812, MS817, MS818 (2.4")	LW90.DN2.P218
MS810de (4.3" eTask)	LW90.DN4.P218
MS812de (4.3" eTask)	LW90.DN7.P218
MS91x Series (4.3" eTask)	LW90.SA.P218
<b>Mono Multi Function Devices</b>	
MX41x Series, MX51x Series (4.3" eTask)	LW90.SB4.P218
MX61x Series (7.0" eTask)	LW90.SB7.P218
MX71x Series, MX81x Series (7.0"/10.0" eTask)	LW90.TU.P218
MX91x Series (10" eTask)	LW90.MG.P218
<b>Color Single Function Devices</b>	
CS51x Series (4.3" eTask)	LW90.VY4.P218
<b>Color Multi Function Devices</b>	
CX41x Series (4.3" eTask)	LW90.GM4.P218

CX51x Series (7.0" eTask)	LW90.GM7.P218
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### **Additional notes and considerations:**

- **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.flr 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.