RELEASE NOTES: xxxAT.221.214, xxxBD.221.214, xxxBL.221.214, xxxBN.221.214, xxxCT.221.214, xxxGM.221.214, xxxGV.221.214, xxxGW.221.214, xxxMH.221.214, xxxMM.221.214, xxxPC.221.214, xxxPM.221.214, xxxPP.221.214, xxxSG.221.214, xxxSN.221.214 and xxxZJ.221.214

READ THIS FIRST: Special notes and considerations

- **Firmware upgrade warning:**
  - Any device running xxxBL.061.001 - xxxBL.061.999 must first update to a FW7 based release such as xxxBL.076.308 before upgrading to xxxBL.081.015 or newer. Failure to do so can result in a device that will not power up to "ready" state.
  - Any device running FW5.1 or older (xxxxx.051.yyy or smaller numbers) must first update to a FW7 based release such as xxxxx.076.308 before upgrading to xxxxx.081.015 or newer
  - CS72x/CX72x Series devices and their equivalents running ATL.03x.yyy or ATL.02x.yyy firmware must first update to CSTAT.041.090 or CXTAT.041.090 as an initial intermediate release before updating to a FW7 based release, such as xxxxx.076.308, and then finally updating to xxxxx.081.015 or newer
  - CS82x/CX82x/CX860 Series devices and their equivalents running FW7.6 or older (xxxPP.076.999 or smaller numbers) must first update to a FW8 based release such as xxxPP.081.234 before upgrading to xxxPP.221.001 thru xxxPP.221.210 firmware
  - Contact Lexmark Technical Support to obtain intermediate releases if needed
- **Firmware downgrade warning:**
  - Devices manufactured with xxxxx.081.015 or newer firmware may not have firmware downgraded below the manufactured level
  - For all other devices it is strongly recommended that a firmware downgrade is NOT performed
  - Downgrading firmware from newer major firmware ECs to older major firmware ECs will result in the loss of Apps, Security Features, and Settings
  - Contact Lexmark Technical Support and see KB Article SO8017 for more information on the impacts of downgrading and for instructions on the steps to take if downgrading is required
- **Ensure the firmware you download is the correct one for the product you have**

CUSTOMER RELEASE NOTES:
FW22.1, xxxAT.221.214, xxxBD.221.214, xxxBL.221.214, xxxBN.221.214, xxxCT.221.214, xxxGM.221.214, xxxGV.221.214, xxxGW.221.214, xxxMH.221.214, xxxMM.221.214, xxxPC.221.214, xxxPM.221.214, xxxPP.221.214, xxxSG.221.214, xxxSN.221.214 and xxxZJ.221.214 for the following devices

Changes in 221.214 (since 221.204):

New Features:
- Enable Lexmark Cloud Bridge Solution Agent on CS53x Series devices and their equivalents (CSNGV firmware versions)
- Add/modify EULA URL in firmware update messages for all supported models listed in this document.

Security Issues Addressed:
- Various security improvements

Field Issues Addressed and Other Improvements:
- Improve toner level reporting and sleep/wake responsiveness for MS53x/MS63x/MX53x/MX632 Series devices and their equivalents (MSNSN, MSTSN, MXNSN, and MXTSN firmware versions)
- Fix for an issue where Cloud Connector profiles such as Google Drive intermittently disappear from the printer's operator panel on 2.8" panel devices only
- SNMP improvements
- Fix for an incorrect print output when printing certain types of PDF files
- Fix mishandling of PCL5 macros in certain scenarios
- Adjust left margin for any width above 12 inches for CX93x/94x MFPs
- Add support for Prescribe's Unit Of Measurement per dots (UOM) command
- Enable duplex bottom margin adjustment on MS521 devices and their equivalents (MSNGM firmware version)
- Add support for additional media sizes to Prescribe's Set Paper SiZe (SPSZ) command
- Fix for PDF Error 141 when printing certain types of PDF files
- Improve Cloud Services Enrollment Messaging
- Fix for an issue where the "Check for Updates" button under Firmware Updates on the device op panel sometimes showed an older version than what was currently available
- Fix for an issue where CS/CX82x and CX860 devices and their equivalents booted to recovery mode after firmware update if coming directly from FW7.x or earlier (CSTPP and CXTPP firmware versions)
- Performance improvements for Scan Center scan to network workflows utilizing VPN
- Fixes for known issues in 221.204 release
    - A registration shift of 1-2mm may be seen in certain scenarios when copying on the following models (CXTGV firmware version)

- Duplex printing from the manual feeder for the following models may encounter a 231.03 jam error (CSNZJ, CSTZJ, CXNZJ, CXTZJ, CSNGV, CSTGV, and CXTGV firmware versions)
- Fixes for multiple sources of 900 errors, some causes include:
  - 900 error @PROCESS /opt/pbis/sbin/lwcertd only when connected to network
  - 900 errors when scanning
  - 900 fax service error with etherFAX setup and sending fax to non-etherFAX numbers
- Usability improvements:
  - Allow device to post an error message on the panel if attempting to print a Bookmark of XPS file type on a device that does not support XPS printing
  - Performance improvement for Address Book loading on operator panel
  - Fix for an issue where some "help" videos are unable to play on the device operator panel
  - Multiple translations improvements

Known issues:
- Intermittent network connection drops in certain network environments when using 802.1x protocol. If experiencing this error, contact TSC for a newer release of firmware to address this issue.

Changes in 221.204 (since 221.113):

New Features:
- New product support
  - MS53x/MS63x/MX53x/MX632
  - CS53x/CS63x/CX53x/CX63x
- Update Android Fonts
- Support PDF A-2u, archival PDF format
- Increase custom size scan length to 25 inches for CX93x/CX94x/MX93x devices (CXTPC and MXTPM firmware versions)
- Re-add support for XPS printing on devices which supported it on FW8.1 and prior versions

Security Issues Addressed:
- Fix IPSec communication issue
- Resolve an issue with Active Directory join
- Update to 90meter module
- Additional security improvements

Field Issues Addressed and Other Improvements:
- Fixes for 161.81, 912.28, and 912.72A errors
- Fix 31.41K Cyan Cartridge errors on CS/CX53x and CS/CX63x devices (CSTGV and CXTGV firmware versions)
- Fixes for various causes of op panel freezing and "Busy, please wait" hang
- Fixes for various incorrect print output issues when printing certain Postscript, URF, IPDS, and PCL-XL print jobs

- Disable trailing dot to the CN on the certificate subject when the Domain Name field is blank
- Improvements to margin, skew, and registration settings and adjustments
- Improve compatibility with LDD
- SNMP communication improvements
- Fix an issue with returning PCL5 status readback information for downloaded fonts
- Fix an eSF standard prompt issue which applies to any eSF app calling it
- Fix for an issue where a TWN4 Front USB card reader is not working on the front USB port when a Marknet N8372 Wifi adapter is attached to the rear USB port
- Add DBCS support for import settings
- Fix for an issue where the Multi Function Printer intermittently boots up with only Single Function device capability
- Improvements in compatibility with Lexmark OnePrint
- Fix for an issue where "Display Language" was not returned to default after restore factory default operation
- Fix for an issue where DNS records are not updated dynamically
- Correct the "Vendor Class Type" reporting for some devices
- Fix for a "low disk space" error when using Scan Center on devices with an installed ISD
- Multiple usability improvements, some include:
  - Improve user guidance for resolving 200.x5E and 200.x5F jams on MS/MX53x and MS/MX63x devices (MSNSN and MSTSN firmware versions)
  - Fix display of alerts for replacing imaging unit
  - Translation improvements
- Fixes for various fax issues, some include:
  - Held Fax job with fax cover page not received by receiving device when released
  - Updates to etherFAX
- Fixes for multiple sources of 900.00 errors, some causes include:
  - Intermittent errors while in sleep state
  - CertManager errors when setting 4096 bit length for RSA Key in certificates
  - CertManager errors when the domain name selected is too long for the buffer
  - Error at power on when the device splash screen data is corrupted

Known issues:
- Duplex printing from the manual feeder for the following models may encounter a 231.03 jam error. If experiencing this error, contact TSC for a newer release of firmware to address this issue:
  - CX63x, CX53x, CX62x, CX52x, CX42x, and CX32x
  - CS63x, CS53x, CS62x, CS52x, CS42x, and CS32x
- A registration shift of 1-2mm may be seen in certain scenarios when copying on the following models. If experiencing this error, contact TSC for a newer release of firmware to address this issue:

- CX63x
- CX53x

Changes in 221.113:

New Features:
- FW Update from Panel (All panel sizes)
- Scanner Glass cleaning instructions
- Secure by default - protect FW Update by default
- Encrypted Bundle Support
- Staple Logic Revamp
- Update JavaScript Library
- New Device Reset Menu
- TPM Firmware Update on EWS
- Move scan data to utilize TLS
- Add setting to choose not to send the PDF attachment in a Fax Transmission Log
- Passive Mode FTP
- Buffered Email (Scan and Hold)
- Add "Test Email" button in EWS
- Fuser Wiper messaging replacement – on applicable models
- Removal of support for XPS and HTML direct printing

Security Issues Addressed:
- CVE-2023-22960 Account Lockout Bypass
- CVE-2023-23560 Server-Side Request Forgery
- 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-2023-26067 Input Validation Vulnerability
- CVE-2023-26068 Embedded Web Server Input Sanitization Vulnerability
- CVE-2023-26069 Web API Input Validation Vulnerability
- CVE-2023-26070 SNMP Input Validation Vulnerability

Field Issues Addressed and Other Improvements:
- Upgrades so that scanning in "mixed mode" now supports a mix of A4/Letter sizes
- Add support for disabling DBCS fonts on the Intelligent Storage Drive (ISD)
- Fix for intermittent light scan/copy output on CX33x/CX43x devices and their equivalents (CXLBL and CXLBN firmware)
- Fix for a 417.33A paper jam when printing to bin 3 of the super finisher on CS82x, CX82x, and CX86x devices and their equivalents (CSTPP and CXTPP firmware)
- Fix for corrupted output when scanning to TIFF with 600 DPI

- Added support for scanning to PDF/A-2u format
- Fix for an issue where the device intermittently does not staple when expected
- Fix for an issue where output orientation was incorrect in some stapling scenario
- Fix for an unexpected output received when printing via USB cable from a computer running Windows10 patched with KB5015807 or newer
- Improved stability for native agent
- Fixes for issues that cause firmware updates to intermittently fail on some devices
- Fixes for multiple Universal Print job errors
- Fixes for multiple fax issues
- Fixes for multiple sources of 900.00 Firmware Errors
- Fixes for multiple PDF, PCL and PJL emulator errors

Supported Models:

Color Models	Firmware Version
Single Function Devices	
CS33x Series, C3224, C3326	CSLBL.221.214
CS42x Series, C2325, C2425	CSNZJ.221.214
CS43x Series, C3426	CSLBN.221.214
CS52x Series, C2535	CSNZJ.221.214
CS531, C2335	CSNGV.221.214
CS62x Series, C2240	CSTZJ.221.214
CS632	CSTGV.221.214
CS72x Series, C4150	CSTAT.221.214
CS73x Series, C4342, C4352	CSTMM.221.214
CS82x Series, C6160	CSTPP.221.214
CS92x Series, C9235	CSTMH.221.214
CS93x Series	CSTPC.221.214
Multi-Function Devices	
CX33x Series, MC3224, MC3326	CXLBL.221.214
CX42x Series, MC2325, MC2425	CXNZJ.221.214
CX43x Series, MC3426	CXLBN.221.214

CX52x Series, MC2535, XC2235	CXTZJ.221.214
CX532, XC2335	CXTGV.221.214
CX62x Series, MC2640, XC4240	CXTZJ.221.214
CX635	CXTGV.221.214
CX72x Series, XC414x Series, XC415x Series	CXTAT.221.214
CX73x Series, XC4342, XC4352	CXTMM.221.214
CX82x Series, XC615x Series, XC8155	CXTPP.221.214
CX86x Series, XC816x Series	CXTPP.221.214
CX92x Series, XC92xx Series	CXTMH.221.214
CX93x Series, XC93xx Series	CXTPC.221.214
CX94x Series, XC94xx Series	CXTPC.221.214
Mono Models	**Firmware Version**
Single Function Devices	
B2236	MSLSG.221.214
MS32x Series, B2338	MSNGM.221.214
MS33x Series, B3340	MSLBD.221.214
MS42x Series, B2442, M1242	MSNGM.221.214
MS43x Series, B3442	MSLBD.221.214
MS52x Series, B2546, M1246	MSNGM.221.214
MS531	MSNSN.221.214
MS621, B2650	MSNGM.221.214
MS622, M3250	MSTGM.221.214
MS631	MSNSN.221.214
MS632, M3350	MSTSN.221.214

MS72x Series	MSNGW.221.214
MS821, MS823, MS825, B2865	MSNGW.221.214
MS822, MS824, MS826, M5255, M5265, M5270	MSTGW.221.214
Multi-Function Devices	
MB2236	MXLSG.221.214
MX32x Series, MB2338	MXNGM.221.214
MX33x Series	MXLBD.221.214
MX42x Series, MB2442, XM1238	MXTGM.221.214
MX43x Series, MB3442	MXLBD.221.214
MX432 Series	MXTCT.221.214
MX52x Series, MB2546, XM1242, XM1246	MXTGM.221.214
MX532	MXTSN.221.214
MX62x Series, MB2650, XM3250	MXTGM.221.214
MX632, XM3350	MXTSN.221.214
MX72x Series, MB2770, XM5370	MXTGW.221.214
MX82x Series, XM73xx Series	MXTGW.221.214
MX93x Series, XM93x Series	MXTPM.221.214

Additional notes and considerations

- **Firmware upgrade warning:**
  - It may take up to 20 minutes to update devices to FW8 code if the code level currently on the device is FW2 or FW3 based
  - This is a one-time issue transitioning the device from FW2 or FW3 to FW8

- To know if the device is currently running FW2 or FW3 based code, check the firmware version on the device. FW2 and FW3 based code will have the following version format:
  - ATL.03x.yyy or ATL.02x.yyy
  - CB.03x.yyy or CB.02x.yyy
  - PP.03x.yyy or PP.02x.yyy
  - YK.03x.yyy or YK.02x.yyy
  -

- **Understanding firmware nomenclature:**
  - Beginning with FW4, firmware versions are named in the pattern ABCDD.xxy.zzz where:
    - A tells whether the printer is Mono or Color (M = mono, C = color)
    - B tells whether the printer is Single or Multi-function (S = single function printer (SFP), X = multi-function printer (MFP))
    - C tells whether the UI is a touch screen, non-touch or "lite feature set" (T = touch screen, 4.3" or larger screen, N = non-eSF and non-lite, L = lite)
    - DD tells the model family
    - xx tells the major firmware EC version, while y tells the minor firmware EC version (050 = FW5.0, 051 = FW5.1, etc.)
    - zzz tells the release number within that firmware EC
  - FW2 or FW3 firmware versions are named in the pattern DD.xxy.zzz using the same mapping as above. However, the DD model families used on FW2 and FW3 were changed on FW4 and newer:
    - ATL on FW2 and FW3 becomes AT on FW4 and newer
    - CB on FW2 and FW3 becomes AT on FW4 and newer
    - YK on FW2 and FW3 becomes PP on FW4 and newer