Release Notes: LW73.xx.P034

READ THIS FIRST: Special notes and considerations

- **Upgrade guidelines:**
    - This firmware release is intended for customers with current firmware versions LW72.xx.P030, LW71.xx.P025, LW70.xx.P022, or older (releases where the 2 digits immediately after LW are less than 70)
    - If the current firmware on the device is LW70.xx.P200 or newer (releases where the 3 digits after P are greater than 200), do NOT update to this release. Contact the Technical Support Center for a newer version of firmware.
- **MS310d, MS310dn, MS312dn, MS317, MS410d, and MS410dn devices**:
    - If device firmware is EC5 or older, update the device firmware first to LW50.PRL.P593. 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, simply send the updfonts.fls file included in the zip package to the device. This is a smaller version that fits in the space available with no loss of characters.
- **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.
    - According to the firmware FAQ posted on the support site, we do not officially support downgrading firmware. This is the reason it is not supported, even though great efforts are made to prevent these kinds of events from happening, sometimes it is unavoidable. We apologize for the inconvenience.

Supported Models:

Model	Firmware Version
Mono Single Function Devices	
MS310d, MS310dn (LED)	LW73.PRL.P034
MS312dn, MS317 (2-Line)	LW73.PRL.P034
MS315dn (2.4")	LW73.TL2.P034
MS410d, MS410dn (2-Line)	LW73.PRL.P034
MS415dn, MS417 (2.4")	LW73.TL2.P034
MS51x Series, MS610dn, MS617 (2.4")	LW73.PR2.P034
MS610de (4.3" eTask)	LW73.PR4.P034
MS71x Series (2.4")	LW73.DN2.P034
MS810, MS811, MS812, MS817, MS818 (2.4")	LW73.DN2.P034
MS810de (4.3" eTask)	LW73.DN4.P034
MS812de (4.3" eTask)	LW73.DN7.P034
MS91x Series (4.3" eTask)	LW73.SA.P034
Mono Multi Function Devices	
MX31x Series (2.4")	LW73.SB2.P034
MX41x Series, MX51x Series (4.3" eTask)	LW73.SB4.P034
MX61x Series (7.0" eTask)	LW73.SB7.P034
MX71x Series, MX81x Series (7.0"/10.0" eTask)	LW73.TU.P034
MX91x Series (10" eTask)	LW73.MG.P034
MX6500e	LW73.JD.P034
Color Single Function Devices	
CS31x Series (2-Line)	LW73.VYL.P034

CS41x Series (2.4")	LW73.VY2.P034
CS51x Series (4.3" eTask)	LW73.VY4.P034
Color Multi Function Devices	
CX31x Series (2.4")	LW73.GM2.P034
CX41x Series (4.3" eTask)	LW73.GM4.P034
CX51x Series (7.0" eTask)	LW73.GM7.P034

CUSTOMER RELEASE NOTES:

Base firmware EC7.3, LW73.xx.P034, for the following devices (changes since EC6.3, LW63.xx.P638)

New features:
- Changes in LW72.xx.P030
    - etherFAX Support
        - ATTENTION: Setting the Fax Transport to 'etherFAX' will cause the fax feature to be unavailable unless the user has an active account for this device with etherFAX, LLC. You can contact etherFAX, LLC at www.etherfax.net, or call 1-877-384-9866 or 1-732-813-0990.
- Changes in LW70.xx.P022
    - Added SMBv3 support. See KB Article #FA1227 for more details
    - Enhanced TLS 1.2 support. Can now disable TLS 1.0 and TLS1.1
    - Added new "SSL Cipher List" setting
    - Updated openSSL to version 1.0.2j
    - Added support for PKCS #12 security certificates standard

Apps (eTask models only):
- Changes in LW73.xx.P034
    - Update Card Copy App to version 2.12.6 (fixes an issue with the app on 4.3" UI devices)
- Changes in LW70.xx.P022
    - EcoSettings app - v3.0.11 (4.3" op panels) and v3.5.9 (7" op panel)
    - Background and Idle Screen app - v3.11.0
    - Forms and Favorites app - v4.3.3 (for 7" & 10" op panels) and v3.3.3 (for 4.3" op panels)
    - Scan to Network app - v4.9.7
    - Card Copy app - v2.12.5
    - Multi Send app - v2.7.6

- My Shortcut app - v1.6.1

Security Issues Addressed:
- Changes in LW73.xx.P034
    – SNMP Denial of Service Vulnerability - CVE-2019-9931
    – Lexmark Overflow Vulnerabilities
        - CVE-2019-9930
        - CVE-2019-9932
        - CVE-2019-9933
    – Cross Site Request Forgery - CVE-2019-10057
    – Account Lockout - CVE-2019-10058
    – Information Disclosure via finger service - CVE-2019-10059
    – Information Disclosure Vulnerability
        - CVE-2019-9934
        - CVE-2019-9935
    – Shortcut Integrity vulnerability - CVE-2019-6489
- Changes in LW72.xx.P030
    – Directory Traversal Vulnerability - CVE-2018-18894
- Changes in LW71.xx.P025
    – Lexmark Buffer Overflow Vulnerability - CVE-2018-15519
- Changes in LW70.xx.P022
    – Addressed KRACK which has the following CVEs associated with it:
        - CVE-2017-13077
        - CVE-2017-13078
        - CVE-2017-13079
        - CVE-2017-13080
        - CVE-2017-13081
        - CVE-2017-13082
        - CVE-2017-13084
        - CVE-2017-13086
        - CVE-2017-13087
        - CVE-2017-13088

Field Issues Addressed and Other Improvements:
- Changes in LW73.xx.P034
    – Fix for a 900.00 error when receiving a fax that contains a blank page when the Fax Transport is set to etherFAX
    – Fix to handle special XML characters in reporting
    – Translations changes
    – Improve capability for concurrent app presence
- Changes in LW71.xx.P025
    – Fixed issue where an App crashes when sanitizing edit box using single quotes in their VLML

- Removed anonymous authentication ciphers from factory default values
- Fixed crash when shutting down SMB
- Changes in LW70.xx.P022
    - Update jar signing algorithm for Remote Operator Panel and Scan Profile java applets
    - Fix for an issue where PDF scans with 1-bit mono images were unreadable by iOS10 and up
    - Fix for an issue on MX31x devices where pressing the sleep button does not put the device to sleep even when the setting is configured to do so
    - Fixes for several 900.xx crashes
    - Multiple fixes for blank screen, white screen, and busy screen hangs
    - Multiple translations changes
    - Multiple card reader fixes
    - Multiple fixes for PDF, PS, and PCL print job errors
    - Multiple fixes for fax and fax-over-IP