

## Release Notes: LW70.xx.P022

### READ THIS FIRST: Special notes and considerations

- **MS310d, MS310dn, MS312dn, MS317, MS410d, and MS410dn devices:**
  - When updating from EC5 or older firmware to EC6 or newer firmware, use an intermediate release, LW50.PR.P593.FDN.PIR.E618.fls, included in the zip package along with these release notes.
  - If your device firmware is EC5 or older, update your device firmware first to LW50.PRL.P593. After your device reboots, you can proceed to update firmware to EC6.0 or newer firmware.
  - This intermediate update is necessary due to increased code size of EC6.0 or newer and memory usage during code updates. If you attempt to load EC6.0 or newer code over EC5 or older code other than LW50.PR.P593, it can take up to or more than 90 minutes to update or it may even fail completely due to an out of memory condition.
- **Non-eTask Models:**
  - If your 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. You will need to 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 our support site, we do not officially support downgrading firmware. This is the reason we do not support it, even though we go to great efforts to prevent these kinds of events from happening, sometimes it is unavoidable. We apologize for the inconvenience.

### CUSTOMER RELEASE NOTES:

Base firmware EC7.0, LW70.xx.P022, for the following devices (changes since EC6.3, LW63.xx.P638)

**Supported Models:**

<b>Model</b>	<b>Firmware Version</b>
<b>Mono Single Function Devices</b>	
MS310d, MS310dn (LED)	LW70.PRL.P022
MS312dn, MS317 (2-Line)	LW70.PRL.P022
MS315dn (2.4")	LW70.TL2.P022
MS410d, MS410dn (2-Line)	LW70.PRL.P022
MS415dn, MS417 (2.4")	LW70.TL2.P022
MS51x Series, MS610dn, MS617 (2.4")	LW70.PR2.P022
MS610de (4.3" eTask)	LW70.PR4.P022
MS71x Series (2.4")	LW70.DN2.P022
MS810, MS811, MS812, MS817, MS818 (2.4")	LW70.DN2.P022
MS810de (4.3" eTask)	LW70.DN4.P022
MS812de (4.3" eTask)	LW70.DN7.P022
MS91x Series (4.3" eTask)	LW70.SA.P022
<b>Mono Multi Function Devices</b>	
MX31x Series (2.4")	LW70.SB2.P022
MX41x Series, MX51x Series (4.3" eTask)	LW70.SB4.P022
MX61x Series (7.0" eTask)	LW70.SB7.P022
MX71x Series, MX81x Series (7.0"/10.0" eTask)	LW70.TU.P022
MX91x Series (10" eTask)	LW70.MG.P022
MX6500e	LW70.JD.P022

<b>Color Single Function Devices</b>	
CS31x Series (2-Line)	LW70.VYL.P022
CS41x Series (2.4")	LW70.VY2.P022
CS51x Series (4.3" eTask)	LW70.VY4.P022
<b>Color Multi Function Devices</b>	
CX31x Series (2.4")	LW70.GM2.P022
CX41x Series (4.3" eTask)	LW70.GM4.P022
CX51x Series (7.0" eTask)	LW70.GM7.P022

**New features:**

- 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):**

- 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:**

- 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:**

- 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