# Lexmark Security Advisory:

Revision:	1.1
Last update:	22 June 2022
Public Release Date:	30 June 2022

#### Summary

This vulnerability allows an attacker who has already compromised an affected Lexmark device to maintain persistence across reboots.

### References

CVE: CVE-2022-29850

CWE: CWE-15, CWE-20

### Details

Lexmark firmware is stored in a compressed read-only filesystem that is continuously integrity checked as programs are loaded into RAM for execution. This means that if a device is somehow compromised, a reboot should clear the issue from the device.

This vulnerability allows an attacker that has already compromised the device, and therefore has the ability to modify internal configuration files, to make their compromise persistent, meaning after a device is rebooted, it will remain compromised.

NOTE: This vulnerability cannot be used to compromise a device, it can only be used on a device that has already been compromised by another means.

CVSSv3 Base Score	9.8	(AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:N)
Impact Subscore:	5.9	
Exploitability Subscore:	3.9	

CVSSv3 scores are calculated in accordance with CVSS version 3.1 (https://www.first.org/cvss/user-guide)

### Impact

Successful exploitation of this vulnerability can lead to persistent backdoor installed on the affected device.

### Affected Products

To determine a devices firmware level, select the "Settings"->"Reports"->"Menu Setting Page" menu item from the operator panel. If the firmware level listed under "Device Information" matches any level under "Affected Releases", then upgrade to a "Fixed Release".

Lexmark Models	Affected Releases	Fixed Releases
B2236	MSLSG.081.013and previous	MSLSG.081.014 and later
MB2236	MXLSG.081.013and previous	MXLSG.081.014 and later
MS331, MS431	MSLBD.081.013and previous	MSLBD.081.014 and later
M1342	MSLBD.081.013and previous	MSLBD.081.014 and later

MAI 342   MISLBD.081.013 and previous   MISLBD.081.014 and later     MX341   MXLBD.081.013 and previous   MXLBD.081.014 and later     MX341   MXLBD.081.013 md previous   MXLBD.081.014 and later     MX342   MXLBD.081.013 md previous   MXLBD.081.014 and later     M1242, M1246   MSNGM.081.013 md previous   MSNGM.081.014 and later     M2338, B2442, B2546, B2650   MSNGM.081.013 md previous   MSTGM.081.014 and later     M3250   MSTGM.081.013 md previous   MSTGM.081.014 and later     M3250   MSTGM.081.013 md previous   MXNGM.081.014 and later     MX421, MX521, MX522, MX622   MXTGM.081.013 md previous   MXNGM.081.014 and later     M3238   MXNGM.081.013 md previous   MXTGM.081.014 and later     M3242, XM1246, XM3250   MXTGM.081.013 md previous   MXTGM.081.014 and later     M3242, M32546, M32560   MXTGM.081.013 md previous   MSTGW.081.014 and later     M3242, M3254, M3250   MXTGW.081.013 md previous   MSTGW.081.014 and later     M3242, M3254, M3250   MSTGW.081.013 md previous   MSTGW.081.014 and later     M3255, MS270   MSTGW.081.013 md previous   MSTGW.081.014 and later     M3255, MS26	B3442, B3340	MSLBD.081.013and previous	MSLBD.081.014 and later
MX311, MX431   MXLBD.081.013and previous   MXLBD.081.014 and later     MB3442   MXLBD.081.013and previous   MXLBD.081.014 and later     MI321, MS421, MS521, MS621   MSNGM.081.013and previous   MSNGM.081.014 and later     MI3242, M1246   MSNGM.081.013and previous   MSNGM.081.014 and later     MS622   MSTGM.081.013and previous   MSNGM.081.014 and later     MS221   MSNGM.081.013and previous   MSNGM.081.014 and later     MX321   MNNGM.081.013and previous   MXNGM.081.014 and later     MX221, MX522, MX622   MXTGM.081.013and previous   MXTGM.081.014 and later     MX1242, XM1246, XM2520   MXTGM.081.013and previous   MXTGM.081.014 and later     MY1242, MB246, MB2650   MXTGM.081.013and previous   MSTGW.081.014 and later     MY252, MS821, MS823, MS825   MSNGW.081.013and previous   MSTGW.081.014 and later     MS254, MS826   MSTGW.081.013and previous   MSTGW.081.014 and later     MY252, MX822, MX822, MX826   MXTGW.081.013and previous   MSTGW.081.014 and later     MS255, M7355, XM7355, XM7370   MXTGW.081.013and previous   MXTGW.081.014 and later     CS431, CS439   CS1.BN.081.013and previous   CS1.BN.081.014 and later			
MB3442   MXLBD.081.013and previous   MXLBD.081.014 and later     MS321, MS521, MS521   MSNGM.081.013and previous   MSNGM.081.014 and later     B2338, B2442, B2546, B2650   MSNGM.081.013and previous   MSNGM.081.014 and later     MS622   MSTGM.081.013and previous   MSTGM.081.014 and later     MS250   MSTGM.081.013and previous   MSTGM.081.014 and later     MX321   MNNGM.081.013and previous   MXNGM.081.014 and later     MX221, MX522, MX622   MXTGM.081.013and previous   MXTGM.081.014 and later     MX421, MX521, MX522, MX622   MXTGM.081.013and previous   MXTGM.081.014 and later     MS424, XM1246, XM3250   MXTGM.081.013and previous   MXTGM.081.014 and later     MS424, MS246, MB2560   MSTGW.081.013and previous   MSTGW.081.014 and later     MS822, MS826   MSTGW.081.013and previous   MSTGW.081.014 and later     MS822, MS826   MSTGW.081.013and previous   MSTGW.081.014 and later     MS22, MS826   MSTGW.081.013and previous   MXTGW.081.014 and later     MS321, C439   CSLBN.081.013and previous   MXTGW.081.014 and later     C3426   CSLBN.081.013and previous   CSLBN.081.014 and later     C3426			
MS321, MS421, MS521, MS621   MSNGM.081.013and previous   MSNGM.081.014 and later     M1242, M1246   MSNGM.081.013and previous   MSNGM.081.014 and later     MS338, B2442, B2546, B2650   MSNGM.081.013and previous   MSNGM.081.014 and later     M3250   MSTGM.081.013and previous   MSTGM.081.014 and later     M3251   MXNGM.081.013and previous   MXNGM.081.014 and later     MS233   MXNGM.081.013and previous   MXNGM.081.014 and later     MX421, MX521, MX522, MX622   MXTGM.081.013and previous   MXTGM.081.014 and later     MS725, MS231, MS23, MS25   MSNGW.081.013and previous   MXTGM.081.014 and later     MS725, MS231, MS23, MS25   MSNGW.081.013and previous   MSTGW.081.014 and later     MS255, MS270   MSTGW.081.013and previous   MSTGW.081.014 and later     MS255, MS270   MXTGW.081.013and previous   MXTGW.081.014 and later     MS272, MS822   MXTGW.081.013and previous   MXTGW.081.014 and later     CS431, CS439   CS1.BN.081.013and previous   MXTGW.081.014 and later     CS431, CS439   CS1.BN.081.013and previous   CS1.BN.081.014 and later     CS424, CS326   CS1.BN.081.013and previous   CS1.BN.081.014 and later		•	
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MB2442. MB2546. MB2650MXTGM.081.013and previousMXTGM.081.014 and laterMS725. MS821. MS823. MS825MSNGW.081.013and previousMSNGW.081.014 and laterB2865MSNGW.081.013and previousMSTGW.081.014 and laterMS822. MS826MSTGW.081.013and previousMSTGW.081.014 and laterMS525. MS270MSTGW.081.013and previousMSTGW.081.014 and laterMX721. MX722. MX826MXTGW.081.013and previousMXTGW.081.014 and laterMX730. MX730MXTGW.081.013and previousMXTGW.081.014 and laterC3426CSLBN.081.013and previousCSLBN.081.014 and laterC3331CSLBN.081.013and previousCSLBN.081.014 and laterC3224. C3326CSLBN.081.013and previousCSLBL.081.014 and laterC2326CSLBN.081.013and previousCSLBN.081.014 and laterCX431CXLBN.081.013and previousCXLBN.081.014 and laterCX426CXLBN.081.013and previousCXLBN.081.014 and laterCX426CXLBN.081.013and previousCXLBN.081.014 and laterCX426CXLBN.081.013and previousCXLBN.081.014 and laterCX426CXLBN.081.013and previousCXLBN.081.014 and laterC3224. MC3326CXLBN.081.013and previousCXLBN.081.014 and laterC3231CXLBN.081.013and previousCXLBN.081.014 and laterC3242. MC3326CXLBN.081.013and previousCXLBN.081.014 and laterC3224. MC3326CXLBN.081.013and previousCXLBN.081.014 and laterC3224. MC325CXSZJ.081.013and previousCXLBL.081.014 and laterC3225. C2425. C2525CXTZJ.081.013and previ			
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B2865MSNGW.081.013and previousMSNGW.081.014 and laterMSS22, MS826MSTGW.081.013and previousMSTGW.081.014 and laterMS255, MS270MSTGW.081.013and previousMSTGW.081.014 and laterMX721, MX722, MX822, MX826MXTGW.081.013and previousMXTGW.081.014 and laterXM5365, XM7355, XM7370MXTGW.081.013and previousMXTGW.081.014 and laterC3426CSLBN.081.013and previousCSLBN.081.014 and laterC3426CSLBN.081.013and previousCSLBN.081.014 and laterC3224, C3326CSLBL.081.013and previousCSLBL.081.014 and laterC3224, C3326CSLBN.081.013and previousCSLBL.081.014 and laterC2326CSLBN.081.013and previousCSLBL.081.014 and laterMC3426CXLBN.081.013and previousCXLBN.081.014 and laterCX331CXLBN.081.013and previousCXLBN.081.014 and laterC3522CSTZJ.081.013and previousCXLBN.081.014 and laterC3522, C2425, C2535CSNZJ.081.013and previousCSNZJ.081.014 and laterC3522, C2425, C2535CSNZJ.081.013and previousCSNZJ.081.014 and laterC3525, MC240CXTZJ.081.013and previousCXTZJ.081.014 and laterC3525, MC240CXTZJ.081.013and previousCXTZJ.081.014 and laterC3525, MC240CXTZJ.081.013and previous </td <td></td> <td></td> <td></td>			
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	XC4140, XC4143, XC4150,	CXTAT.081.013and previous	CXTAT.081.014 and later

XC4153		
CS921, CS923, CS927	CSTMH.081.013and previous	CSTMH.081.014 and later
C9235	CSTMH.081.013and previous	CSTMH.081.014 and later
CX920, CX921, CX922, CX923, CX924	CXTMH.081.013and previous	CXTMH.081.014 and later
XC9225, XC9235, XC9245, XC9255, XC9265	CXTMH.081.013and previous	CXTMH.081.014 and later

### **Obtaining Updated Software**

To obtain firmware that resolves this issue or if you have special code, please contact Lexmark's Technical Support Center at <u>http://support.lexmark.com</u> to find your local support center.

### Workarounds

Lexmark recommends a firmware update if your device has affected firmware.

### **Exploitation and Public Announcements**

Lexmark is not aware of any malicious use against Lexmark products of the vulnerability described in this advisory.

Lexmark would like to thank the following people for bringing this issue to our attention:

Alex Plaskett of NCC Group EDG Cedric Halbronn of NCC Group EDG Aaron Adams of NCC Group EDG

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## **Revision History**

RevisionDate1.122 June 2022

<u>Reason</u> Initial Public Release