

# Lexmark Security Advisory:

Revision: 1.1  
Last update: 13 March 2023  
Public Release Date: 10 March 2023

## Summary

The embedded web server in newer Lexmark devices fails to properly sanitize input data which can lead to remote code execution on the device.

## References

CVE: CVE-2023-26068

ZDI: ZDI-CAN-19766, ZDI-CAN-19774, ZDI-CAN-19470

CWE: CWE-20, CWE-267

## Details

A vulnerability has been identified in the embedded web server used in Lexmark devices. The vulnerability allows the attacker to execute arbitrary code on a device with the permissions of the embedded webserver.

CVSSv3 Base Score 8.5 (AV:N/AC:H/PR:L/UI:N/S:C/C:H/I:H/A:H)  
Impact Subscore: 6.0  
Exploitability Subscore: 1.8

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 an attacker being able to remotely execute arbitrary code on a 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          |
|--|----------------------------|-------------------------|
| CX930, CX931, CX942, CX943, CX944      | CXTPC.081.232 and previous | CXTPC.081.233 and later |
| XC9325, XC9335, XC9445, XC9455, XC9465 | CXTPC.081.232 and previous | CXTPC.081.233 and later |
| CS943                                  | CSTPC.081.232 and previous | CSTPC.081.233 and later |
| MX432                                  | MXTCT.081.232 and previous | MXTCT.081.233 and later |
| XM3142                                 | MXTCT.081.232 and previous | MXTCT.081.233 and later |

|                                   |                            |                         |
|-----------------------------------|----------------------------|-------------------------|
| MX931                             | MXTPM.081.232 and previous | MXTPM.081.233 and later |
| CX730, CX735                      | CXTMM.081.232 and previous | CXTMM.081.233 and later |
| XC4342, XC4352                    | CXTMM.081.232 and previous | CXTMM.081.233 and later |
| CS730, CS735                      | CSTMM.081.232 and previous | CSTMM.081.233 and later |
| C4342, C4352                      | CSTMM.081.232 and previous | CSTMM.081.233 and later |
| B2236                             | MSLSG.081.232 and previous | MSLSG.081.233 and later |
| MB2236                            | MXLSG.081.232 and previous | MXLSG.081.233 and later |
| MS331, MS431, MS439               | MSLBD.081.232 and previous | MSLBD.081.233 and later |
| M1342                             | MSLBD.081.232 and previous | MSLBD.081.233 and later |
| B3442, B3340                      | MSLBD.081.232 and previous | MSLBD.081.233 and later |
| XM1342                            | MXLBD.081.232 and previous | MXLBD.081.233 and later |
| MX331, MX431                      | MXLBD.081.232 and previous | MXLBD.081.233 and later |
| MB3442                            | MXLBD.081.232 and previous | MXLBD.081.233 and later |
| MS321, MS421, MS521, MS621        | MSNGM.081.232 and previous | MSNGM.081.233 and later |
| M1242, M1246                      | MSNGM.081.232 and previous | MSNGM.081.233 and later |
| B2338, B2442, B2546, B2650        | MSNGM.081.232 and previous | MSNGM.081.233 and later |
| MS622                             | MSTGM.081.232 and previous | MSTGM.081.233 and later |
| M3250                             | MSTGM.081.232 and previous | MSTGM.081.233 and later |
| MX321                             | MXNGM.081.232 and previous | MXNGM.081.233 and later |
| MB2338                            | MXNGM.081.232 and previous | MXNGM.081.233 and later |
| MX421, MX521, MX522, MX622        | MXTGM.081.232 and previous | MXTGM.081.233 and later |
| XM1242, XM1246, XM3250            | MXTGM.081.232 and previous | MXTGM.081.233 and later |
| MB2442, MB2546, MB2650            | MXTGM.081.232 and previous | MXTGM.081.233 and later |
| MS725, MS821, MS823, MS825        | MSNGW.081.232 and previous | MSNGW.081.233 and later |
| B2865                             | MSNGW.081.232 and previous | MSNGW.081.233 and later |
| MS822, MS826                      | MSTGW.081.232 and previous | MSTGW.081.233 and later |
| M5255, M5270                      | MSTGW.081.232 and previous | MSTGW.081.233 and later |
| MX721, MX722, MX725, MX822, MX826 | MXTGW.081.232 and previous | MXTGW.081.233 and later |
| XM5365, XM5370, XM7355, XM7370    | MXTGW.081.232 and previous | MXTGW.081.233 and later |
| MB2770                            | MXTGW.081.232 and previous | MXTGW.081.233 and later |
| C3426                             | CSLBN.081.232 and previous | CSLBN.081.233 and later |
| CS431, CS439                      | CSLBN.081.232 and previous | CSLBN.081.233 and later |
| CS331                             | CSLBL.081.232 and previous | CSLBL.081.233 and later |
| C3224, C3326                      | CSLBL.081.232 and previous | CSLBL.081.233 and later |
| C2326                             | CSLBN.081.232 and previous | CSLBN.081.233 and later |
| MC3426                            | CXLBN.081.232 and previous | CXLBN.081.233 and later |
| CX431                             | CXLBN.081.232 and previous | CXLBN.081.233 and later |
| XC2326                            | CXLBN.081.232 and previous | CXLBN.081.233 and later |
| MC3426                            | CXLBN.081.232 and previous | CXLBN.081.233 and later |
| MC3224, MC3326                    | CXLBL.081.232 and previous | CXLBL.081.233 and later |
| CX331                             | CXLBL.081.232 and previous | CXLBL.081.233 and later |
| CS622                             | CSTZJ.081.232 and previous | CSTZJ.081.233 and later |
| C2240                             | CSTZJ.081.232 and previous | CSTZJ.081.233 and later |
| CS421, CS521                      | CSNZJ.081.232 and previous | CSNZJ.081.233 and later |
| C2325, C2425, C2535               | CSNZJ.081.232 and previous | CSNZJ.081.233 and later |
| CX522, CX622, CX625               | CXTZJ.081.232 and previous | CXTZJ.081.233 and later |
| XC2235, XC4240                    | CXTZJ.081.232 and previous | CXTZJ.081.233 and later |

|   |                            |                         |
|---|----------------------------|-------------------------|
| MC2535, MC2640                            | CXTZJ.081.232 and previous | CXTZJ.081.233 and later |
| CX421                                     | CXNZJ.081.232 and previous | CXNZJ.081.233 and later |
| MC2325, MC2425                            | CXNZJ.081.232 and previous | CXNZJ.081.233 and later |
| CX820, CX825, CX827, CX860                | CXTPP.081.232 and previous | CXTPP.081.233 and later |
| XC6152, XC6153, XC8155,<br>XC8160, XC8163 | CXTPP.081.232 and previous | CXTPP.081.233 and later |
| CS820, CS827                              | CSTPP.081.232 and previous | CSTPP.081.233 and later |
| C6160                                     | CSTPP.081.232 and previous | CSTPP.081.233 and later |
| CS720, CS725, CS727, CS728                | CSTAT.081.232 and previous | CSTAT.081.233 and later |
| C4150                                     | CSTAT.081.232 and previous | CSTAT.081.233 and later |
| CX725, CX727                              | CXTAT.081.232 and previous | CXTAT.081.233 and later |
| XC4140, XC4143, XC4150,<br>XC4153         | CXTAT.081.232 and previous | CXTAT.081.233 and later |
| CS921, CS923, CS927                       | CSTMH.081.232 and previous | CSTMH.081.233 and later |
| C9235                                     | CSTMH.081.232 and previous | CSTMH.081.233 and later |
| CX920, CX921, CX922, CX923,<br>CX924      | CXTMH.081.232 and previous | CXTMH.081.233 and later |
| XC9225, XC9235, XC9245,<br>XC9255, XC9265 | CXTMH.081.232 and previous | CXTMH.081.233 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 <http://support.lexmark.com> 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 working with Trend Micro's Zero Day Initiative (ZDI) for bringing this issue to our attention:

James Horseman  
Zach Hanley  
Aleksei Stafeev  
Pwn2Own Toronto 2022 DEVCOR team

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## ***Revision History***

| <u>Revision</u> | <u>Date</u>      | <u>Reason</u>                  |
|-----------------|------------------|--------------------------------|
| 1.0             | 28 February 2023 | Initial Public Release         |
| 1.1             | 13 March 2023    | Updated Affected Products list |