Lexmark Security Advisory:

Revision: 1.0
Last update: 20 January 2016
Public Release Date: 25 January 2016

Summary
A race condition exists detecting the security jumper state during initialization.

Under certain circumstances, during initialization, some Lexmark printers have a race condition that causes the device to incorrectly detect a change in the status of the security jumper. Depending on how the device is configured this can cause the device to remove authentication requirements to access device functions.

References
CVE: CVE-2016-1896

Details
Lexmark has identified a race condition in some products that cause the security jumper state to be incorrectly detected during initialization. In the right conditions, the likelihood of this error occurring can be as high as 25%. If the device configuration setting: “Settings”->”Security”->”Miscellaneous”->”Security Reset Jumper” is set to “Enable Guest Access” then when the error occurs unauthenticated users will be able to access all device functions, including the ability to read/modify security settings.

The factory default configuration of the “Security Reset Jumper” setting is “Enable Guest Access”.

CVSS Base Score 7.2 (AV:L/AC:L/AU:N/C:C/I:C/A:C)
  Impact Subscore: 10
  Exploitability Subscore: 3.9

CVSS scores are calculated in accordance with CVSS version 2.0 (http://www.first.org/cvss/cvss-guide.html)

Impact
Successful exploitation of this vulnerability can lead to the disclosure and/or modification of configuration information 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”.
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 updating firmware to address this issue. Changing the configuration setting “Settings”->”Security”->”Miscellaneous”->”Security Reset Jumper” to “No Effect” can be used as a workaround, but the consequence is that access to the printer cannot be recovered in the case of failure/loss of authentication credentials.

Exploitation and Public Announcements

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

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