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Inim Electronics SmartLiving SmartLAN/G/SI <=6.x Root Remote Command Execution

Title: Inim Electronics SmartLiving SmartLAN/G/SI <=6.x Root Remote Command Execution

Advisory ID: ZSL-2019-5544 Type: Local/Remote Impact: System Access, DoS Risk: (5/5)

Release Date: 09.12.2019

Summary

SmartLiving anti-intrusion control panel and security system provides important features rarely found in residential, commercial or industrial application systems of its kind. This optimized-performance control panel provides first-rate features such as: graphic display, text-to-speech, voice notifier, flexible hardware, end-to-end voice transmission (voice-onbus). IP connectivity.

SMARTLAN/SI: The system-on-chip platform used in the SmartLAN/SI accessory board provides point-to-point networking capability and fast connectivity to the Internet. Therefore, it is possible to set up a remote connection and program or control the system via the SmartLeague software application. In effect, the SmartLAN/SI board grants the same level of access to the system as a local RS232 connection.

SMARTLAN/G: The SmartLAN/G board operates in the same way as the SmartLAN/SI but in addition provides advanced remote-access and communication functions. The SmartLAN/G board is capable of sending event-related e-mails automatically. Each e-mail can be associated with a subject, an attachment and a text message. The attachment can be of any kind and is saved to an SD card. The message text can contain direct links to domains or IP addressable devices, such as a security cameras. In addition to e-mails, the SmartLAN/G board offers users global access to their control panels via any Internet browser accessed through a PC, PDA or Smartphone. In fact, the SmartLAN/G has an integrated web-server capable of distinguishing the means of connection and as a result provides an appropriate web-page for the tool in use. Smartphones can control the system in much the same way as a household keypad, from inside the house or from any part of the world.

Description

SmartLiving SmartLAN suffers from an authenticated remote command injection vulnerability. The issue exist due to the 'par' POST parameter not being sanitized when called with the 'testemail' module through web.cgi binary. The vulnerable CGI binary (ELF 32-bit LSB executable, ARM) is calling the 'sh' executable via the system() function to issue a command using the mailx service and its vulnerable string format parameter allowing for OS command injection with root privileges. An attacker can remotely execute system commands as the root user using default credentials and bypass access controls in place.

Vendor

INIM Electronics s.r.l. - https://www.inim.biz

Affected Version

<=6.x SmartLiving 505 SmartLiving 515 SmartLiving 1050, SmartLiving 1050/G3 SmartLiving 10100L, SmartLiving10100L/G3

Tested On

GNU/Linux 3.2.1 army5teil Boa/0.94.14rc21 BusyBox v1.20.2

Vendor Status

[06.09.2019] Vulnerability discovered.

[10.09.2019] Vendor contacted.

[10.10.2019] No response from the vendor.

[11.10.2019] Vendor contacted.

[29.11.2019] No response from the vendor.

[30.11.2019] Vendor contacted.

[08.12.2019] No response from the vendor.

[09.12.2019] Public security advisory released.

smartlan_exploit.sh

Vulnerability discovered by Gjoko Krstic - <gjoko@zeroscience.mk>

- [1] https://www.exploit-db.com/exploits/47765
- [2] https://packetstormsecurity.com/files/155616
- [3] https://cxsecurity.com/issue/WLB-2019120046
- [4] https://exchange.xforce.ibmcloud.com/vulnerabilities/172840
- [5] https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-21992
- [6] https://nvd.nist.gov/vuln/detail/CVE-2020-21992 [7] https://ubuntu.com/security/CVE-2020-21992

Changelog

[09.12.2019] - Initial release

[12.12.2019] - Added reference [1], [2], [3] and [4]

[19.06.2021] - Added reference [5], [6] and [7]

Contact

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