Forescout Nucleus TCP/IP Stack Vulnerability Amplify Alert

Executive Summary
Cybersecurity researchers at Forescout have identified 13 vulnerabilities that impact millions of Internet-connected hospital devices. Several of these vulnerabilities have been categorized as high or critical. The research includes associated patches. HC3 recommends healthcare organizations analyze their infrastructure for vulnerable devices and apply patches in a timely manner.

Report
New Critical Vulnerabilities Found on Nucleus TCP/IP Stack
https://www.forescout.com/blog/new-critical-vulnerabilities-found-on-nucleus-tcp-ip-stack/

Impact to HPH Sector
These 13 newly disclosed vulnerabilities in Nucleus Net TCP/IP stacks, dubbed Nucleus:13, could allow attackers to launch denial-of-service (DoS) attacks to disrupt medical equipment and patient monitors. Some of them allow for information leakage (both patient and technical data related to the operations of the vulnerable device) as well as remote code execution, which would allow an attacker to potentially take control of a compromised device.

References
New Critical Vulnerabilities Found on Nucleus TCP/IP Stack
https://www.forescout.com/blog/new-critical-vulnerabilities-found-on-nucleus-tcp-ip-stack/

These cybersecurity vulnerabilities could leave millions of connected medical devices open to attack
https://www.zdnet.com/article/these-cybersecurity-vulnerabilities-could-leave-millions-of-connected-medical-devices-open-to-attack/

Researchers find 13 medical device vulnerabilities potentially capable of taking hospitals offline
https://www.beckershospitalreview.com/cybersecurity/researchers-find-13-medical-device-vulnerabilities-potentially-capable-of-taking-hospitals-offline.html

NUCLEUS:13 TCP security bugs impact critical healthcare devices
https://www.bleepingcomputer.com/news/security/nucleus-13-tcp-security-bugs-impact-critical-healthcare-devices/

NUCLEUS:13 vulnerabilities impact Siemens medical & industrial equipment
https://therecord.media/nucleus13-vulnerabilities-impact-siemens-medical-industrial-equipment/

Contact Information
If you have any additional questions, please contact us at HC3@hhs.gov.

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