



Update: CVE-2021-44228 (“Apache Log4j”)

Boston Scientific is dedicated to ensuring the safety and security of our products worldwide and has been closely monitoring the remote code execution (RCE) vulnerability impacting Apache Log4j versions 2.14.1 and older. A successful attempt at exploitation would allow an unauthenticated attacker to remotely execute arbitrary code on the vulnerable system. Additionally, security researchers claimed threat actors are actively scanning for vulnerable servers using Apache Log4j and that there have been attempts to exploit this vulnerability in real-world businesses.

CVE-2021-44228 is a high severity RCE flaw, which affects the Java-based logging library known as Log4j. The Apache-created library is incorporated into a host of popular frameworks, including Apache Struts2, Apache Solr, Apache Druid, and Apache Flink, which services a variety of popular web-based tools and services.

We have confirmed that the following products do not use Apache Log4j and are not affected by the CVE-2021-4228 Log4j vulnerability:

Product	Model Number	Status
LABSYSTEM™ Pro EP Recording System	All models	Not vulnerable
RHYTHMIA HDx™ Mapping System	All models	Not vulnerable
SMARTFREEZE™ Cryoablation System	All models	Not vulnerable
AVVIGO™ Guidance System I	All models	Not vulnerable
AVVIGO™ Guidance System II	All models	Not vulnerable
iLAB™ Ultrasound Imaging System	All models	Not vulnerable
POLARIS™ Multi-Modality Guidance System	All models	Not vulnerable
FFR Link	All Models	Not vulnerable
ROTAPRO™ Atherectomy System	All Models	Not vulnerable
EXALT™ Monitor	All Models	Not vulnerable
EXALT™ Controller	All Models	Not vulnerable
SpyGlass™ DS Digital Controller	All Models	Not vulnerable
SpyGlass™ Discover Digital Controller	All Models	Not vulnerable
ALAIR™ BT Controller	All Models	Not vulnerable
SCS Spinal Cord Stimulator Clinician Programmer	All models	Not vulnerable
DBS Deep Brain Stimulation Clinician Programmer	All models	Not vulnerable
SCS Spinal Cord Stimulator Remote Control	All models	Not vulnerable
DBS Deep Brain Stimulation Remote Control	All models	Not vulnerable

SCS Spinal Cord Stimulator Implantable Pulse Generator	All models	Not vulnerable
DBS Deep Brain Stimulation Implantable Pulse Generator	All models	Not vulnerable
SCS Spinal Cord Stimulator External Trial Stimulator	All models	Not vulnerable
DBS Deep Brain Stimulation External Trial Stimulator	All models	Not vulnerable
RF3000™ Radiofrequency Ablation System	All models	Not vulnerable
AngioJet™ Peripheral Thrombectomy System	All models	Not vulnerable
EKOS™ Endovascular System	All models	Not vulnerable
ICEFX™ Cryoablation System	All models	Not vulnerable
Visual ICE™ Cryoablation System	All models	Not vulnerable
RF3000 Radiofrequency Ablation Generator	All models	Not vulnerable
Simplicit ^{90Y} ™	Version 2.6.2	Not vulnerable
Simplicit ^{90Y} ™	Version 2.0-beta9 to 2.14.2 [2.6]	Vulnerable (Note: Miranda Medical Ltd. has contacted users of Version 2.6 to provide information needed to upgrade to Version 2.6.2)
Simplicit ^{90Y} ™	Versions 1.1, 2.2, 2.2.2, 2.4	Not vulnerable

Additionally, Boston Scientific apps, mySCS™, myVertiflex™ and PainScale™, are not vulnerable.

For More Information:

United States Technical Services

Electrophysiology Product Support:
+1 (833) 373-4353

Spinal Cord Stimulation and RF Support:
+1 (877) 282-5313

Deep Brain Stimulation Support:
+1 (833) 327-4636

EXALT™ Model D Support:
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EKOS Support:
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All Other Product Support:
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Capital Equipment Support:

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Our global product cybersecurity team continues to assess if the vulnerability affects any other Boston Scientific products using Apache Log4j. As we complete this analysis, we will provide an update to this bulletin.

For more detail refer to:

- [NVD - CVE-2021-44228 \(nist.gov\)](https://nvd.nist.gov/vuln/detail/CVE-2021-44228)
- [CVE - CVE-2021-44228 \(mitre.org\)](https://www.cve.org/CVERecord?id=CVE-2021-44228)

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