



## **CVE-2021-34527 (“PrintNightMare”) Windows Print Spooler Remote Code Execution Vulnerability Boston Scientific iLAB™, POLARIS™ & AVVIGO™ Systems**

The remote code execution (RCE) vulnerability identified in the Microsoft Windows Print Spooler Service known as PrintNightMare or CVE-2021-34527 has low risk of impacting the Boston Scientific iLAB™ Ultrasound Imaging System, POLARIS™ Multi-Modality Guidance System, and AVVIGO™ Guidance System. After an evaluation of devices currently in use, we can confirm that, to date, we have not received any feedback that the aforementioned products have been affected by the PrintNightMare vulnerability.

### **Vulnerability Detail:**

The iLAB, POLARIS, and AVVIGO Systems are built on the Microsoft Windows operating system. According to Microsoft, a remote code execution vulnerability exists when the Windows Print Spooler Service improperly performs privileged file operations. An attacker who successfully exploits this vulnerability could run arbitrary code with SYSTEM privileges. An attacker could then install programs, view, change, delete data, or create new accounts with full user rights.

Note: While first-generation AVVIGO systems are vulnerable to this CVE, the AVVIGO Guidance System II is not vulnerable to CVE-2021-34527 PrintNightmare Windows Print Spooler Remote Code Execution Vulnerability.

### **Recommendations:**

Customers who are concerned about the susceptibility of iLAB, POLARIS, and AVVIGO Systems in their Cath Lab can employ the following temporary measure to reduce the likelihood of exposure:

1. Disconnect the system from the clinic network. This will disable the connection to the PACS system, but will have no effect on the clinical use of the system. Data can still be archived to PACS using removable media as described in the IFUs.

Customers in a region in which POLARIS 2.14 software and beyond is approved, we recommend contacting your local sales team to schedule an update.

Please contact your field service representative with any questions about these precautionary measures or any other concerns regarding our response to this matter.

Note: Concerned customers with POLARIS and/or AVVIGO systems, we recommend contacting your Boston Scientific sales representatives to discuss AVVIGO upgrade options.

**Full List of Affected Products:**

<b>AVVIGO Product #</b>	<b>AVVIGO Product Name</b>
H7490097610	AVVIGO 1.0 Tablet US
H7490097620	AVVIGO 1.0 Tablet Europe
H7490097630	AVVIGO 1.0 Tablet Japan

<b>Polaris Product #</b>	<b>POLARIS Model Name</b>
H74939322220CCD0	POLARIS MOBILE CHINA 220V EVAL
H74939322240CD0	POLARIS MOBILE 240V EVAL
H74939322220CD0	POLARIS MOBILE 220V EVAL
H74939322100CD0	POLARIS MOBILE 100V EVAL
H7493932212BIO	POLARIS INTEGRATED BRAZIL 120V
H7493932212BIZ0	POLARIS INTEGRATED BRAZIL 120V
H74939322240IZ0	POLARIS INTEGRATED 240V ZERO C
H74939322220IZ0	POLARIS INTEGRATED 220V ZERO C
H74939322120IZ0	POLARIS INTEGRATED 120V ZERO C
H74939322100IH0	POLARIS Integrated 100V Hospital
H74939322100CH0	POLARIS Mobile 100V Hospital
H7493932212BCZ0	POLARIS MOBILE BRAZIL 120V ZER
H74939322100CZ0	POLARIS MOBILE 100V ZERO COST
H74939322100IZ0	POLARIS INTEGRATED 100V ZERO C
H74939322120CD0	POLARIS MOBILE 120V EVAL
H74939322100I0	POLARIS INTEGRATED 100V
H74939322100C0	POLARIS MOBILE 100V
H74939322240I0	POLARIS INTEGRATED 240V
H74939322220C0	POLARIS MOBILE 220V
H74939322220CCZ0	POLARIS MOBILE CHINA 220V ZERO
H7493932222CI0	POLARIS INTEGRATED CHINA 220V
H74939322220I0	POLARIS INTEGRATED 220V
H7493932222CC0	POLARIS MOBILE CHINA 220V
H7493932212BC0	POLARIS MOBILE BRAZIL 120V
H74939322240CZ0	POLARIS MOBILE 240V ZERO COST
H74939322220CZ0	POLARIS MOBILE 220V ZERO COST
H74939322120C0	POLARIS MOBILE 120V
H74939322120I0	POLARIS INTEGRATED 120V
H74939322120CZ0	POLARIS MOBILE 120V ZERO COST
H74939322240C0	POLARIS MOBILE 240V
H7493932222CCM0	POLARIS MOBILE CHINA 220V (MAH)
H7493932222CCMZ0	POLARIS MOBILE CHINA 220V ZEROCOST (MAH)
H7493932222CIM0	POLARIS INTGD CHINA 220V (MAH)

H7493932222CIMZ0	POLARIS INTGD CHINA 220V ZERO COST (MAH)
H74939322220CRO	POLARIS MOBILE 220V REFURB
H74939322100CRO	POLARIS MOBILE 100V REFURB
H74939322240CRO	POLARIS MOBILE 240V REFURB
H74939322120CRO	POLARIS MOBILE 120V REFURB

<b>iLab Product #</b>	<b>iLab Product Name</b>
H749ILAB100C270	ILAB CART 100V 2.7
H749ILAB100C27H0	ILAB CART 100V 2.7 CUST OWNED
H749ILAB100C27R0	ILAB CART 100V 2.7 REFURB
H749ILAB100C27Z0	iLab CART 100V 2.7 ZERO
H749ILAB100CART0	iLab CART SYSTEM 100V
H749ILAB100CARTD0	iLab CART SYSTEM 100V DEMO
H749ILAB100CARTH0	ILAB CART 100V CUST OWNED
H749ILAB100CARTR0	ILAB CART SYSTEM 100V REFURB
H749ILAB100CARTRN0	iLab CART SYSTEM 100V RTN
H749ILAB100CARTZ0	iLab CART SYSTEM 100V ZERO COS
H749ILAB100INS0	iLab INSTL BASIC SYSTEM 100V
H749ILAB100INSR0	iLab INSTL BASIC SYSTEM 100V
H749ILAB100INSRN0	iLab INSTL BASIC SYSTEM 100V
H749ILAB100INSZ0	iLab INSTL BASIC SYSTEM 100V Z
H749ILAB100N270	ILAB INSTALL 100V 2.7
H749ILAB100N27Z0	iLab INSTALL 100V 2.7 ZERO
H749ILAB120C270	ILAB CART 120V 2.7
H749ILAB120C2710	ILAB CART 120V 2.7.1
H749ILAB120C271R0	ILAB CART 120V 2.7.1 REFURB
H749ILAB120C271Z0	iLab CART 120V 2.7.1 ZERO
H749ILAB120C27B0	ILAB CART 120V 2.7 BRAZIL
H749ILAB120C27BZ0	iLab CART 120V 2.7 BRAZIL ZERO
H749ILAB120C27R0	ILAB CART 120V 2.7 REFURB
H749ILAB120C27Z0	iLab CART 120V 2.7 ZERO
H749ILAB120CART0	iLab CART SYSTEM 120V
H749ILAB120CARTB0	iLab CART SYSTEM 120V BRA
H749ILAB120CARTBD0	iLab CART SYSTEM 120V DEMO BRA
H749ILAB120CARTBZ0	iLab CART SYSTEM 120V ZERO BRA
H749ILAB120CARTD0	iLab CART SYSTEM 120V DEMO
H749ILAB120CARTR0	ILAB CART SYSTEM 120V REFURB
H749ILAB120CARTRN0	iLab CART SYSTEM 120V RTN
H749ILAB120CARTZ0	iLab CART SYSTEM 120V ZERO
H749ILAB120INS0	iLab INSTL BASIC SYSTEM 120V
H749ILAB120INSB0	iLab INSTL BASIC SYSTEM 120V B
H749ILAB120INSR0	iLab INSTL BASIC SYSTEM 120V R
H749ILAB120INSRN0	iLab INSTL BASIC SYSTEM 120V R
H749ILAB120INSZ0	iLab INSTL BASIC SYSTEM 120V Z
H749ILAB120N270	iLab INSTALL 120V 2.7

H749ILAB120N2710	ILAB INSTALL 120V 2.7.1
H749ILAB120N271Z0	iLab INSTALL 120V 2.7.1 ZERO
H749ILAB120N27B0	ILAB INSTALL 120V 2.7 BRAZIL
H749ILAB120N27Z0	iLab INSTALL 120V 2.7 ZERO
H749ILAB220C270	ILAB CART 220V 2.7
H749ILAB220C2710	iLab CART 220V 2.7.1
H749ILAB220C271R0	ILAB CART 220V 2.7.1 REFURB
H749ILAB220C271Z0	iLab CART 220V 2.7.1 ZERO
H749ILAB220C27R0	iLab CART 220V 2.7 REFURB
H749ILAB220C27Z0	iLab CART 220V 2.7 ZERO
H749ILAB220CART0	iLab CART SYSTEM 220V
H749ILAB220CARTD0	iLab CART SYSTEM 220V DEMO
H749ILAB220CARTR0	ILAB CART SYSTEM 220V REFURB
H749ILAB220CARTRN0	iLab CART SYSTEM 220V RTN
H749ILAB220CARTZ0	iLab CART SYSTEM 220V ZERO COS
H749ILAB220INS0	iLab INSTL BASIC SYSTEM 220V
H749ILAB220INSR0	iLab INSTL BASIC SYSTEM 220V R
H749ILAB220INSRN0	iLab INSTL BASIC SYSTEM 220V R
H749ILAB220INSZ0	iLab INSTL BASIC SYSTEM 220V Z
H749ILAB220N270	ILAB INSTALL 220V 2.7
H749ILAB220N2710	iLab INSTALL 220V 2.7.1
H749ILAB220N271Z0	iLab INSTALL 220V 2.7.1 ZERO
H749ILAB220N27Z0	iLab INSTALL 220V 2.7 ZERO
H749ILAB240C270	ILAB CART 240V 2.7
H749ILAB240C2710	ILAB CART 240V 2.7.1
H749ILAB240C271R0	ILAB CART 240V 2.7.1 REFURB
H749ILAB240C271Z0	iLab CART 240V 2.7.1 ZERO
H749ILAB240C27B0	iLab CART 240V 2.7 BRAZIL
H749ILAB240C27BZ0	iLab CART 240V 2.7 BRAZIL ZERO
H749ILAB240C27R0	ILAB CART 240V 2.7 REFURB
H749ILAB240C27Z0	iLab CART 240V 2.7 ZERO
H749ILAB240CART0	iLab CART SYSTEM 240V
H749ILAB240CARTB0	iLab CART SYSTEM 240V BRA
H749ILAB240CARTBD0	iLab CART SYSTEM 240V DEMO BRA
H749ILAB240CARTBZ0	iLab CART SYSTEM 240V ZERO COS
H749ILAB240CARTD0	iLab CART SYSTEM 240V DEMO
H749ILAB240CARTP0	iLab CART SYSTEM 240V Premium
H749ILAB240CARTR0	ILAB CART SYSTEM 240V REFURB
H749ILAB240CARTRN0	iLab CART SYSTEM 240V RTN
H749ILAB240CARTZ0	iLab CART SYSTEM 240V ZERO COS
H749ILAB240INS0	iLab INSTL BASIC SYSTEM 240V
H749ILAB240INSB0	iLab INSTL BASIC SYSTEM 240V B
H749ILAB240INSR0	iLab INSTL BASIC SYSTEM 240V R
H749ILAB240INSRN0	iLab INSTL BASIC SYSTEM 240V R
H749ILAB240INSZ0	iLab INSTL BASIC SYSTEM 240V Z
H749ILAB240N270	ILAB INSTALL 240V 2.7

H749ILAB240N2710	iLab INSTALL 240V 2.7.1
H749ILAB240N271Z0	iLab INSTALL 240V 2.7.1 ZERO
H749ILAB240N27B0	iLab INSTALL 240V 2.7 BRAZIL
H749ILAB240N27Z0	iLab INSTALL 240V 2.7 ZERO
H749ILABCARTINDECO	iLab CART SYSTEM 100V W/ INDEC
H749ILABINSINDECO	iLab INSTL BASIC SYSTEM 100V W/ INDEC
H749ILABLOC24MM	Location Mensuelle ILAB 24M
H749ILABLOC24MT	Location Trimestrielle ILAB 24M
H749ILABLOC36MM	Location Mensuelle ILAB 36M
H749ILABLOC36MT	Location Trimestrielle ILAB 36M
H749ILABLOC48MM	Location Mensuelle ILAB 48M
H749ILABLOC48MT	Location Trimestrielle ILAB 48M
H749ILABLOC60MM	Location Mensuelle ILAB 60M

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