LATITUDE™

Programming System, MODEL 3300

The LATITUDE Programming System, Model 3300 is a portable cardiac rhythm management (CRM) programming system designed to allow health care providers to interrogate, monitor and program Boston Scientific implantable pulse generators (IPGs). The programmers are owned by Boston Scientific and offered only to support Boston Scientific implantable devices.

Patient Data Management Security

- All patient data on the programmer hard drive is encrypted using Advanced Encryption Standards (AES) and up to 450 patient records can be saved.
- Patient data stored on the programmer is automatically deleted after 14 days. The following patient data is automatically deleted after 90 days:
    1. Patients who are a candidate for a S-ICD that have been screened by the EMBLEM™ S-ICD Automated Screening Tool.
    2. Patients who have an implanted S-ICD device.
- The process of identifying patient data to delete is performed when the programmer is powered on.
- Boston Scientific recommends using the Purge All Data feature before returning the programmer for repairs or before moving the programmer to another clinic or hospital.

NOTE: There is no notification to the user that the deletion has occurred.

NOTE: All patient data is encrypted but data can be viewed on the programmer before it has been deleted.

Software Updates

- Boston Scientific cryptographically signs software updates on the LATITUDE Programming System, Model 3300.
- Only software approved by Boston Scientific may be installed and executed on the programmer.
- The installation of any other software is not permitted. Installed software is protected from change and is reverified upon each execution.
- Whenever software updates are available, it is recommended that they are installed as soon as possible.
- Software updates can be downloaded and installed from the Internet via the Software Update tab on the programmer or by your local Boston Scientific representative using a USB flash drive.
- The user has the option to install all updates or select specific updates from the options listed.
- If the installation of a software update does not successfully complete, the user may reinitiate the installation.

Bluetooth™ Security

Only connect to known Bluetooth devices, as patient data could be transmitted to inappropriate printers or devices if this guidance is not followed. Additional Bluetooth security is accomplished by:

- The programmer's Bluetooth radio is only enabled when communication via Bluetooth is requested by the user.
- Bluetooth pairing requests are initiated by 3300 only and inbound Bluetooth pairing requests are ignored.

HeartConnect™ System Security

- The Heart Connect System incorporates security measures for protection of patient data and system integrity. These security measures support general security policies and practices.

- The online meeting, including any images being transmitted, is encrypted to ensure patient information and device data are protected.

- Boston Scientific recommends removing all individual contacts before returning the programmer for repairs or before moving the programmer to another clinic or hospital.

- Boston Scientific utilizes a private deployment of Zoom in conjunction with the Heart Connect System application which have Data Centers located in Europe. This specific Zoom deployment includes additional security and privacy measures not present in the public version of Zoom.

Unsupported Hardware

Any unsupported hardware, including unsupported USB devices, is ignored by the programmer.
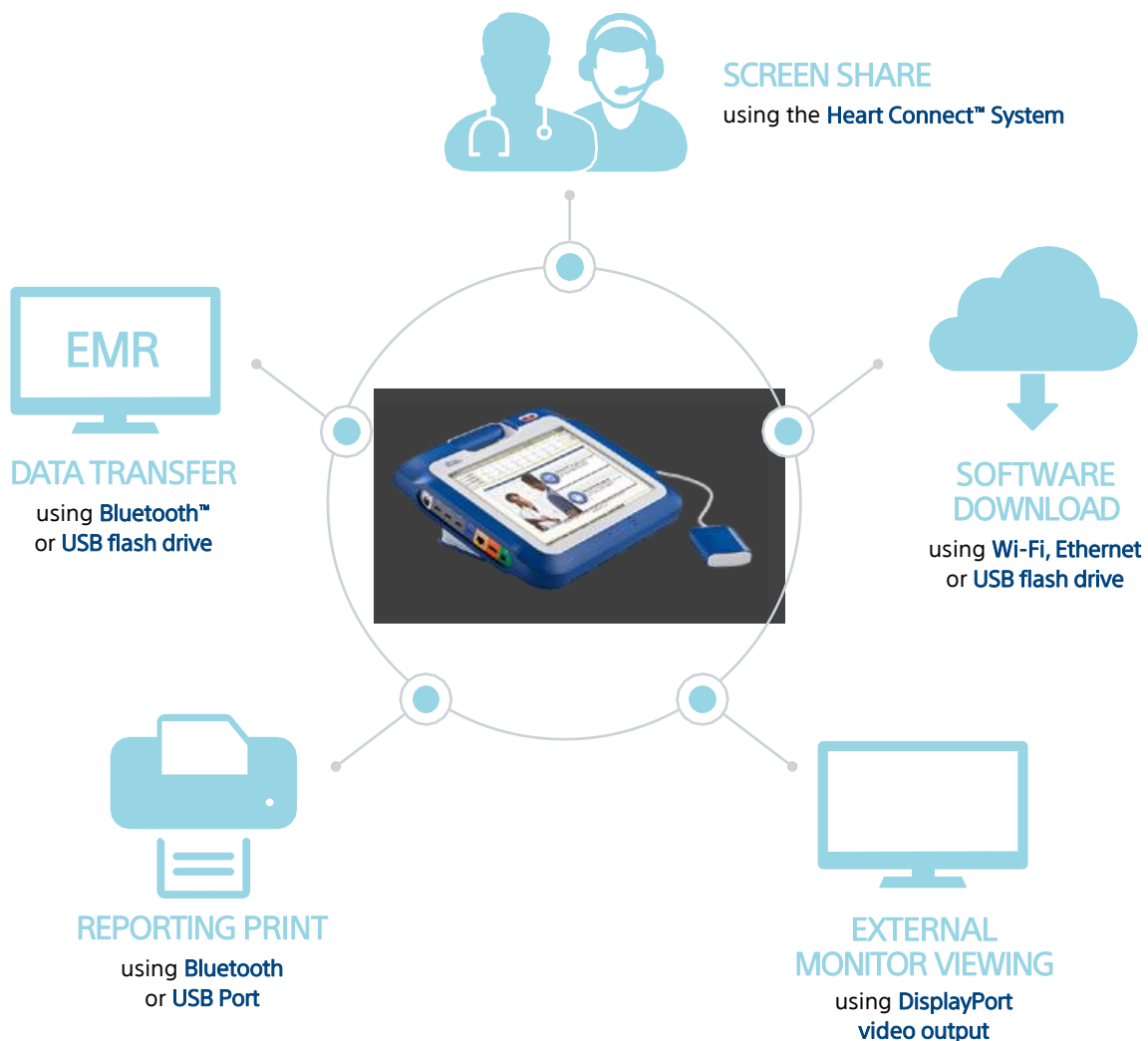
Security Vigilance

Boston Scientific analyzes security threats on an ongoing basis and evaluates the potential impact on the programmer.

Physical Controls

Maintain physical controls over the programmer because a secure physical environment reduces security risk. Although the Model 3300 programmer makes every attempt to limit malware exposure, it is advised that USB devices connected to the programmer be controlled to further limit exposure.

Programmer Integrity

If you believe that the Model 3300 Programming System has been compromised by a security threat, turn off the Programmer; disconnect it from the network, then restart the Programmer. For further assistance, contact Boston Scientific.

SCREEN SHARE
using the Heart Connect™ System

EMR

DATA TRANSFER
using Bluetooth™
or USB flash drive

SOFTWARE DOWNLOAD
using Wi-Fi, Ethernet
or USB flash drive

REPORTING PRINT
using Bluetooth
or USB Port

EXTERNAL MONITOR VIEWING
using DisplayPort
video output

Network and Connectivity Characteristics and Configuration

Required Characteristic of IT Network

Characteristic	Specification
Ethernet	IEEE 802.3u, 100 Mbps full duplex and half duplex on 100BASE-TX IEEE 802.3ab, 1 Gbps full duplex and half duplex on 1000BASE-T
Wi-Fi	IEEE 802.11g, 802.11n, 802.11ac
Hazardous situations resulting from network failure	None

Required Configuration of IT Network

Characteristic	Specification
Ethernet	Dynamic or Static IP addressing
Wi-Fi	Dynamic IP addressing, using IEEE 802.11g, 802.11n, or 802.11ac specification to connect to networks that are public/unsecured, WPA-PSK, or WPA2-PSK
Ethernet MAC Address	The network MAC address can be displayed and the host name is editable
Internet Protocol	IPv4
Dynamic Host Configuration Protocol (DHCP) Mode	Both manual and automatic DHCP codes are supported
Wi-Fi MAC Address	Displayable

The following destinations should be reachable by the programmer:

URL	IPs	Protocols / Ports	Description
crm.iot.bsci.com	Varies	TCP: 443, 8443 (outbound)	Software Updates
cumulocity-prod-crm-us-east-1.s3.us-east-1.amazonaws.com	Varies	TCP: 443, 8443 (outbound)	
cumulocity-prod-logs-crm-us-east-1.s3.us-east-1.amazonaws.com	Varies	TCP: 443, 8443 (outbound)	
pool.ntp.org	Varies	UDP: NTP/123	Syncing Programmer Clock
heartconnect.bostonscientific.eu heartconnectsso.bostonscientific.eu	3.76.54.162, 3.65.160.231	TCP: 80, 443	Heart Connect Remote Support/ Troubleshooting
xmpp.bostonscientific.eu	35.157.27.231, 35.156.205.22, 52.57.171.168, 18.185.205.202, 52.57.159.58, 18.193.12.141	TCP: 443	
Zone Controller	3.70.39.231, 3.126.78.122	TCP: 443, 8802 UDP: 3478, 3479	
Multimedia Router	3.69.248.252, 3.71.124.218	TCP: 443, 8801 UDP: 8801 thru 8810	
securegateway.bsci.com	204.155.22.167, 132.189.82.23	TCP: 443	SSL Authentication

This document describes at a high level the data security features of the LATITUDE Programming System, Model 3300. The information contained here is not intended to replace the Boston Scientific Operator Manuals for the LATITUDE Programming System, Model 3300; Patient Data Management, Pacing System Analyzer, and Network and Connectivity. All Manuals can be found at https://www.bostonscientific.com/manuals/.
For further assistance contact your local Boston Scientific representative.

The LATITUDE Programming System is intended for use by health care professionals trained or experienced in device implant and/or follow-up procedures.

Boston Scientific

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