Nonin Medical SenSmart™ System Connectivity Software Drivers Released for Capsule™ and Spectrum Medical®

Capsule and Spectrum Medical are key solutions to deliver data to electronic medical records (EMR). Now, the Nonin SenSmart™ Model X-100 Universal Oximetry System has connectivity software drivers available for these valuable interface solutions!

• Capsule’s SmartLinx software system and the Capsule Neuron touchscreen bedside interface tie medical devices into an integrated system that not only provides connectivity with the EMR, but also delivers monitoring, management, and analysis of real-time patient data. The Capsule DataCaptor™ Device Interface Nonin A Driver—which operates in Nonin 5 output—has been updated to support the SenSmart Model X-100 Universal Oximetry monitor.*

• Spectrum Medical’s VISION™ EMR interface software and Viper™ Workstation support complete EMR connectivity with an extensive range of medical devices, including the Nonin SenSmart System.* As Nonin’s regional oximetry systems can be configured to send data in five data formats, the Spectrum device interface has been designed to support connectivity in all five formats.*

The communication from both Capsule and Spectrum Medical certifying that they have verified the functionality of their respective drivers is attached for your use when requested by customers and prospects.

PLEASE NOTE: These new connectivity drivers for Nonin Medical’s SenSmart System are only available through Capsule or Spectrum Medical, respectively. Drivers cannot be purchased or obtained through Nonin Medical. Please consult with your IT Department for information about how to obtain and install these drivers.

If you have any additional questions, please contact your Nonin Medical representative.

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*The new Capsule and Spectrum Medical drivers also are available for those accounts who are still installed on Nonin’s first-generation regional oximetry system – the Nonin EQUANOX™ Model 7600 System.
**Product Name:** DataCaptor Device Interface NoninA  

**Version:** 5.0.1  

**Setup Date:** May 7th, 2014  

**Devices Supported:** Nonin Medical  
- EQUANOX 7600 – 13 and above  
- SenSmart X-100 – 1.0.x and above  

**Referenced Protocol Documents:**  
- Model 7600 4-Channel Regional Oximeter Interfacing Guide – Rev. B - 2011  
- Model X-100 CSV Data Output (Nonin5)  

**Problem Statement:** Support for Nonin SenSmart X-100 Universal Oximetry System (C34449)  

**Statement of Quality:** This product version has passed all required quality tests as described in the Quality Realization Process: PROC - DDI Development, thus meeting quality and regulatory requirements.  

Test results are recorded in:  
NoninA 5_0_1_7 EQUANOX 7600 Verification Results.xls  
NoninA 5_0_1_7 SenSmart X-100 Main Verification Results. xls revised May 15th, 2014  

These records are kept in the Design History File.  

Renaud Capolunghi  
Device Interfaces Development Director  
Paris, May 15th, 2014
Nonin SenSmart Device Connectivity

Spectrum Medical offers a unique and intuitive data management system designed to include enhanced device connectivity and EMR integration. Spectrum’s Medical Device Connectivity solution provides and/or supports complete OR connectivity to an extensive range of medical devices including physiological monitors and ancillary devices via RS232, USB and conventional wired network connections and integrates near real-time transfer of data for remote trending analysis and patient alert systems.

A new device interface Nonin_SenSmart.dll (for Spectrum EMR solution G2 release) has been developed as Realtime Results Interface to capture measurement data from the Nonin SenSmart Universal Oximetry System. The development of this new device interface is based on the data communication protocol specification document [1] provided to us by Nonin.

As specified in [1], Nonin SenSmart Device supports five real-time data output formats (Nonin 1-Nonin 5). Format selection on the Nonin device is done via system menu screen under the data output modes settings.

Each of the five supported data communication protocols have specific formats that include headers, control characters and such, that are used for identification of the format, model number, time, date and measurement values etc. Format Nonin 5 is designed to be extensible for supporting additional types of sensors in the future.

As Nonin SenSmart device can be configured to send data in five data formats, the device interface has also been designed to support connectivity over RS232 serial interface and support data communication (data capture, analysis, decoding and measurement reporting) in all the five possible formats.

Device Connectivity between Nonin SenSmart Oximeter and Nonin SenSmart Device Interface on Spectrum Medical System M monitor has been tested successfully. The new device interface module is ready for release and will be available with the next release Spectrum Medical G2 System M release.

References
1. 9544-001-03_X-100 OperatorsManual_ENG.pdf, Nonin Medical Inc.