

#### Anesthesia Device Connections Troubleshooting Guide

# Anesthesia Device Connections Troubleshooting Guide: St. Paul and Minneapolis

# **Troubleshooting Data Flow**

- 1. Verify the correct devices are associated to the record.
  - Monitors display in the Demographics Bar of SaAnesthesia Monitors:
    - An **X** will display if there are no associated monitors
    - Hover on the green dot to display associated devices



 Labels for the associated devices are located on the patient monitor, anesthesia machine, Cerebral Oxi & Cybernet Label examples:



- 2. Verify the following:
  - Green Checkmark is visible on the upper left-hand corner of the Cerner Connectivity Engine (CCE). **Note:** A red X indicates that the CCE is not connected to the LAN or WLAN.



• Devices display in the **Devices** applet.



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The two panels display the connected devices: Patient Monitor, Anesthesia Machine, and/or Cerebral Oximetry.

- 3. Verify all connections (see <u>Connections</u> on page 4)
  - CCE
  - Device Adapters (DA)
    - ↓ If Main OR, there will be two DAs
      - ✤ Anesthesia Machine: Avance, Asisy, or Aestiva
      - Patient Monitor: B450, B650, B840, INVO
    - ↓ If CVOR, there will be two three DAs
      - ✤ Anesthesia Machine: Avance, Asisy, or Aestiva
      - Patient Monitor: B450, B650, B840, INVO
      - ✤ Cerebral oximetry: SOM



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### **Anesthesia Monitor**





#### Label Colors Key:

- 1. Blue = Anesthesia Guide
- 2. **Green** = Patient Monitor

### **Patient Monitor**





- 4. Verify the date/time on the CCE or INVO Expression monitor.
  - Vitals will not chart on the anesthesia record if the clinical date/time and the acquired date/time are not in sync within a 60/sec margin of error
  - BioMed updates the time during Daylight Saving Time
  - Reboot the CCE if the time is inaccurate (See Reboot Guide)



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# Connections

## **Patient Monitor Connections**

GE B450 | B650 | B850

**Connection Points:** 

USA Type A, 9-pin Serial, DA, USB Type A/B, CCE, Ethernet

**Connection Description:** Blue tip USB A plugs into the patient monitor and the blue tip 9-pin male adapter plugs into the brown 9-pin female Digi cable. The Digi cable plugs into the DA and converted into USB, which connects to the CCE.

#### **Invivo Expression**

Connection Points: 9-pin Serial, DA, USB Type A/B, CCE, Ethernet **Connection Description:** The 9-pin Digi cable plugs into the patient monitor, DA and converted into USB, which connects to the CCE.

# Anesthesia Machines Connections

#### Avance/Asisy/Aestiva

Connection Points:

RS-232, 15-pin Serial, DA, USB Type A/B, CCE, Ethernet **Connection Description:** The 15-pin Digi cable plugs into the anesthesia machine monitor, DA and converted into USB, which connects to the CCE.









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## **Cerebral Oximetry**

**INVOS Somantic** 

Connection Points: 9-pin Serial, DA, USA Type A/B. CCE, Ethernet **Connections Description:** The 9-pin female Digi cable plugs into the cerebral monitor, DA and converted into USB, which connects to the CCE.



# INVOS IP5 Expression | Direct Connect

These monitors are directly connected to the network. If the device does not send data, there is an issue with the Ethernet cable, LAN or iBus.

## SpaceLabs | Gateway

Monitors are connected via Space Labs Gateway. Consult SET eam for troubleshooting details.