

## Application Note – Health Care

### —Overview

The health care industry has been revolutionized by technology. New medical devices help doctors monitor everything from heart rates to glucose and provide patients with improved care. The proliferation of equipment in hospitals and clinics means that IT departments need to find new ways to access and manage their resources

### The Challenge:

Systems administrators in hospitals are not just responsible for the network, but must also support the myriad of telemetry devices used to provide medical staff with patient information. Many of these devices, such as fetal heart rate monitors, use a serial interface to transmit data. While this interface is robust and dependable, it may limit access to the equipment and the information that it provides. Frequent, time-consuming visits to record data from a local terminal reduce the time spent on-station, and are not always possible. The terminal equipment makes moving equipment room-to-room inefficient, and HIPAA security provisions require patient data to be protected as it travels anywhere throughout the networks of participating organizations.

### The Solution:

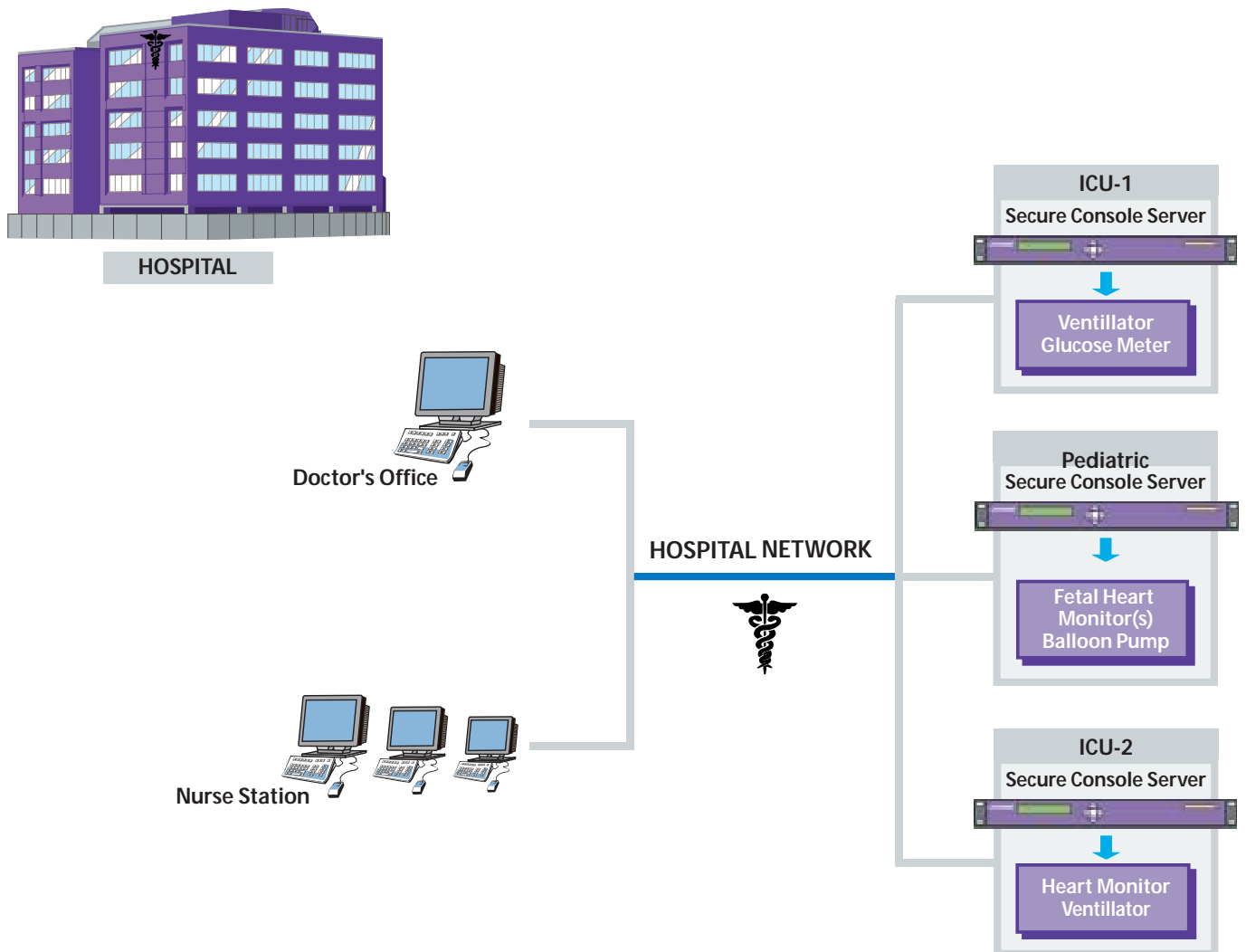
Lantronix Secure Console Servers offer a unique way to add protected network connectivity to medical devices with serial interfaces. These products allow medical staff to securely access data from anywhere on the network, such as a doctor's office or nurse's station. User authentication can prevent unwarranted access. When used in conjunction with other networked applications, the data can be stored and analyzed to see if changes in treatments and medications have been effective. Medical staff is provided with a more efficient and consolidated view of the patient's data.

### Lantronix Secure Console Servers Support a Variety of Features:

- Multi-port serial to Ethernet conversion – Add network connectivity to any devices with a standard RS-232 serial port.
- Security – Authentication and encryption protect the patient's information and hospital's resources.
- Standardized connectors – RJ45 connectors allow standard network cables to be used for connecting to serial devices. Interchanging equipment is simple and inexpensive.

### The Benefits:

- Improves Patient Care: Medical staff can access data from anywhere on the network and can respond more quickly to patient needs.
- Saves Time: Removes the need for continuous local access to the devices and provides information instantaneously across the network.
- Save Money: Devices can be moved from room to room, but still accessed across the network, reducing the total number of monitors, pumps, and other equipment needed.



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