



St. Joseph Hospital, a premier Orange County, California medical facility regarded for its fine use of technology in patient care, chose Spinitar to implement one of the most unique digital signage applications seen within the healthcare industry. Working closely with St. Joseph Hospital, Spinitar was able to design a customized and hands-free digital signage solution for St. Joseph surgical areas.

Situation

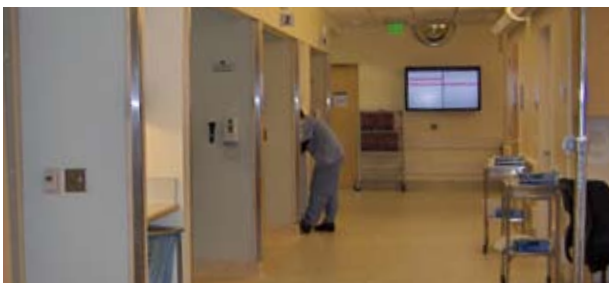
St. Joseph turned to Spinitar to implement an effective method for monitoring real time activity throughout their Pre-Op, Clean Core, and Post Anesthesia Care Unit. These areas needed a way to centrally manage and disseminate real time patient tracking information and build an infrastructure that would allow them to place the information on additional displays in more strategic quarters. This would provide convenience to the staff while increasing efficiencies in a high volume, critical care surgical facility. In addition, all informa-

tion needed to be displayed in high definition for clear legibility. During the course of this digital signage deployment, there were certain challenges to providing and installing electronic technology in a sterile surgical environment. Hospitals have very stringent construction codes/rules and regulations that must be adhered to at all times. However, Spinitar collaborated closely with St. Joseph Hospital in order to implement a complex solution without disrupting the hospital staff.

Solution

After a thorough needs analysis, Spinitar quickly went to work designing and installing a custom digital signage solution that staff could use to disseminate and display critical case data. Based on the content requirements, Spinitar selected Omnivex software because of its ability to interface with the hospital's current patient management system. In addition, the software's capabilities provided the perfect platform for designing a total hands-free digital signage

solution. In order to do this, Spinitar had to conduct a lot of back-end data base programming in order to allow the system to automatically interface with the hospital's existing third party software. This portion was particularly challenging because the information was private and critical in nature, and had to reach the displays in real time. For the displays, Spinitar specified the Sharp professional 1080p LCD displays to provide the highest quality clear image in fine text. Additional products and technologies included Cubix Blade servers, players and management system for its reliability in mission critical 24/7 environments; DVI/Fiber Transmitter Receivers for their ability to maintain high bandwidth over long runs; and Extron DVI/Fiber solution and (2) LINX 8X8 DVI Matrixes by RGB Spectrum. As an audio-visual systems design



Sharp professional 1080p LCD



Omnivex software in use

and build company with a specialized and focused digital signage model, Spinitar was able to offer a total custom solution that met the hospital's exact needs. Its experts are specifically trained and certified in areas that have the most impact on the success of any digital signage deployment. By managing the complete system installation, Spinitar was able to pull together the required resources including its internal team, manufacturer partners, existing contractors and the necessary staff members at St. Joseph that could provide the services and information necessary to meet the time line and achieve the objectives required.

Results

Since the completion of the project, St. Joseph Hospital clinical staff is able to experience up to the minute patient status. The system, which is programmed with custom software, runs "hands-free" for the staff. This has allowed them to continue to change and input updated patient information only on their existing third party software. As a result, the efficiencies have improved with no additional training. The system formats and displays each patient's room information on multiple, easy to see displays. A color code system enables doctors and nurses to immediately view when a patient's status changes. Additionally, when a patient's name is removed because an operating room is no longer in use, hospital support staff can see that and prepare the room more quickly for the next patient. Not only was Spinitar able to deliver a seamless and user-friendly digital signage solution that meets the needs of a sterile surgical environment, but it was also able to meet the very short timeline.