

CASE STUDY

GE Healthcare Mission Control at AdventHealth



Control Center Video Wall Provides AdventHealth Critical Data for Patient Care

Jupiter partners with Constant Technologies for a connected patient network for AdventHealth

Summary

With human lives in the balance, project partners for GE Health set out to create an innovative approach to the Mission Control at AdventHealth in Florida. This new command and control center allows workers at the hospital to predict needs ahead of time and take a proactive approach based on a common operating picture. Patient care needs to be timely and carefully considered. This means operators can adjust staffing and other resources as necessary to make more informed care decisions for patients. Dr. Sanjay Pattani, Executive Medical Director of Mission Control, said “the goal of Mission Control is to give each patient more efficient care.”

Advent Health Mission Control is the nation’s largest healthcare command center, at over 12,500 square feet with 78 workstations that were designed, built, and installed by Constant Technologies, an integrator with global experience that specializes in command and control. The space was built for an initial team of 50 team members with the capacity for future growth. Mission Control is built to evolve as the system and the needs of the hospital change and progress.

Project:

GE Health – Mission Control at AdventHealth

Location:

Florida

The goal of Mission Control is to give each patient more efficient care.

*Dr. Sanjay Pattani,
Executive Medical Director
of Mission Control,
AdventHealth*

Challenge & Solutions



 **Canvas** Enabled

Jupiter's Catalyst XL delivers the best-in-class solution for essential and critical control rooms.

As with operations centers in financial, cybersecurity, and space agencies, medical institutions require the same capability to have informed and rapid response to critical incidents. Round-the-clock care is the standard in healthcare facilities. Failure is not an option when human lives are at stake.

AdventHealth needed a robust operations center solution that could withstand the demands of 24/7/365 mission-critical environments. GE Healthcare had a vision for a mission-critical environment within the hospital system where all the data, from all departments, would be accessible in one room.

In the words of Craig Stumbaugh, director of North American sales for Jupiter, “it was about bringing all the departments together into one room to create the common operating picture.” He explains that GE Healthcare had the tools to create a treasure trove of data for hospital teams to pore over — everything from the number of incoming patients per minute and available beds, to equipment inventory and breathing-apparatus availability, to doctor and nurse staffing levels.

Creating a space to view and act on behalf of patients and staff from 9 campuses of the hospital system is no small operation. In collaboration with long-time integration partner Constant Technologies, Jupiter supplied their Catalyst XL video processors to power the 60-tiled videowall in AdventHealth’s control center.

AdventHealth needed a powerful way to capture, distribute, control, and display video and patient data across its campuses. Jupiter’s Catalyst XL offered the rapid-response data sets needed to govern AdventHealth’s 3,200 hospital beds. Dispatch at AdventHealth averages 107 trips per day, including 2 helicopter flights per day. Overall, the Mission Control Center allows AdventHealth to view information of the over 425,000 patient movements made per year.

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Craig Stumbaugh
*Director of North American Sales,
Jupiter*

The Results

After careful planning and execution, AdventHealth's data is now displayed in real-time on the video walls allowing insight into helicopter dispatch, emergency rooms, inpatient care environments, and more. Proper sightlines and image quality were key considerations for the teams at Constant Technologies and Jupiter to facilitate seamless responses. Additionally, AdventHealth uses artificial intelligence (AI) and machine learning to understand patterns and dynamics to ensure

shorter wait times, improved clinical care, and more informed decision-making for their patients. Craig Stumbaugh said of project partner Constant Technologies, "they are uniquely positioned to leverage our products' capabilities, resulting in higher-caliber project outcomes. They were operating our technology at a level that no other integrator I had seen had the skillset to do or the ability to do." That's a direct result of a quarter-century collaborative partnership with Jupiter.

The Technology

AdventHealth's video wall, comprised of sixty LCD monitors, takes in 500k messages per day. Jupiter's Catalyst XL video wall processor is an undisputed workhorse supporting up to 156 4K direct inputs with unparalleled bandwidth speed.

Sixty LCD monitors comprise AdventHealth's video wall, which takes in 500k messages per day.

A centralized video wall is a crucial component of any successful command and control center. That's certainly the case for AdventHealth, which monitors such a wide array of information. In addition to covering 9 campuses, the hospital dispatch averages 107 trips per day, including 2 flights per day. Overall, Mission Control allows Advent Health to optimize information to place 425,000 patient movements per year.

Brad Righi, president of Constant Technologies, commented on why partnering with Jupiter was key: "We started to take on relationships with a select few vendors. Embracing the mission-critical approach from the outset, Constant Technologies

chose vendor partners carefully, finding that Jupiter offered that rare combination of incredibly robust systems and comfort in an environment where decisions can directly impact human lives."

Jupiter's video wall processors are scalable and offer renowned reliability. AdventHealth needed a system that was fast, agile and scalable to accommodate future hospital expansions. Jupiter's video wall processors are modular and can expand to any size configuration imaginable making them an ideal choice for connected networks like AdventHealth.

This was a landmark project for AdventHealth and the teams at Jupiter and Constant Technologies rose to the challenge to provide a truly future-facing environment that sets a new standard for situational awareness within the healthcare industry.

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