

PUBLIC SECURITY CHALLENGES DRIVE DEMAND FOR REAL-TIME INTELLIGENCE CAPABILITIES



LOCAL, STATE AND NATIONAL AGENCIES SEEK TO IMPROVE COORDINATION, SITUATIONAL AWARENESS AND RESPONSE TIMES

From global terrorism and Hurricane Katrina to the flu pandemic and the Gulf oil spill, current events have highlighted the need for coordinated, real-time response capabilities at local, state and national public security agencies. At the same time, the advent of new technologies has made real-time intelligence much more widely available along with the processing and display capabilities needed for effective decision-making.

In state-of-the-art operation command centers, public agencies can monitor multiple inputs such as live feeds from surveillance cameras, incoming emergency calls and local news and weather reports; search databases; access customized applications and use automated mapping capabilities. The result is significantly improved intelligence gathering and analysis, greater situational awareness and more effective emergency response. Agencies also gain a collaborative work environment to facilitate more effective real-time operations from incident detection to resolution.



SECRETARÍA DE SEGURIDAD PÚBLICA MEXICO FEDERAL POLICE

Jupiter Systems, the leading worldwide supplier of display wall processors for command and control applications, provides advanced processing solutions that are used in virtually every major government operations center with intelligence-gathering capabilities. Jupiter installations include the Departments of Homeland Security and Health and Human Services, Federal Emergency Management Agency, Central Intelligence Agency, National Security Agency as well as the Pentagon and White House.

Jupiter display wall processors used in law-enforcement applications can be found in Dallas, Texas; Los Angeles, Calif.; Monterrey, Cancun, Mexicali, Mexico City and Center for Research and National Security in Mexico; Saga and Ishikawa in Japan; and the President's Office in Colombia. Its processors also are found in emergency operations centers in Barcelona, Ottawa, Arizona, and Los Angeles.

GROWING NEED FOR ENHANCED, AFFORDABLE PUBLIC-SECURITY SOLUTIONS

In the past 10 years, public agencies have faced emergencies of a magnitude never previously imagined. The Sept. 11th terrorist attacks raised security concerns to a new level and resulted in the creation of a new national security agency – the Department of Homeland Security. Hurricane Katrina, a monster Category 5 hurricane, revealed gaps in local, state and national disaster response capabilities. The Gulf oil spill, the largest accident in the history of the petroleum industry, continues to cause extensive damage to marine and wildlife habitats, and the fishing and tourism industries along the U.S. Gulf Coast. The outbreak of the H1N1 flu pandemic illustrated the challenges of responding to a global public health emergency.

Events of the past decade have created greater urgency within local, state and national agencies to find ways to improve security and emergency preparedness. These in turn are driving demand for real-time intelligence gathering and analysis capabilities, reliable connectivity within and across departments, and greater flexibility to manage a variety of dynamic situations. In addition, agencies, large and small, are looking to technology to help them achieve these improvements while meeting significant budgetary constraints.

JUPITER'S SOLUTIONS FOR PUBLIC-SECURITY APPLICATIONS

Jupiter Systems is the global leader in display wall processing with some 10,000 high-performance, continuous-operation command and control center installations around the world. With its advanced display wall processors, Jupiter equips the military, law enforcement and health and emergency response agencies with the knowledge they need to act quickly and effectively to protect the public.

Jupiter's display wall processor is the nerve center of intelligent command and control. These powerful systems aggregate data from a broad range of sources and project it on to a single large display wall or screen where it can be seen, shared and manipulated. Using leading display wall technologies and leveraging new technology trends, Jupiter now offers a full range of solutions for public security applications from centralized processing for large purpose-built command and control centers to revolutionary new scalable distributed control systems.

In total, Jupiter display wall processors help provide national, state and local public agencies with real-time intelligence capabilities. Its solutions give operators greater access to and control over numerous data sources and provide a common operating picture that enables more effective and coordinated response capabilities. As a result, public agencies that are tasked with enforcing laws and protecting public safety and security have embraced Jupiter solutions as a vital part of their technology platform.

CASE 1: MEXICO'S FEDERAL POLICE INTELLIGENCE CENTER

The Public Security Secretariat (Secretaría de Seguridad Pública), Mexico's federal police, is a new police organization leading the fight against drug trafficking, organized crime and other criminal activity in Mexico. Based in a multi-story bunker in a hidden location in Mexico City, the new Federal Police Intelligence Center is the Public Security Secretariat's state-of-the-art facility. It employs some 30,000 intelligence officers and utilizes the most advanced display wall technology.

Jupiter's Fusion 980 and 964 Display Wall Processors integrated with its PixelNet® Distributed Display Wall System were selected by Grupo Covix, Mexico's leading system integrator of surveillance and security systems and a long-term partner, as a critical element in the country's security infrastructure. The new display wall processors are responsible for controlling all information displayed on the center's four display walls, which are comprised of some 80 displays and measure 65 feet wide and 10 feet high.

The display wall controllers help provide the Mexican police with greater situational awareness. By centralizing intelligence gathering, the Public Security Secretariat can make better-informed decisions to prevent and combat crime and enforce national security.

CASE 2: DALLAS POLICE DEPARTMENT'S FUSION CENTER

In 2009, the Dallas Police Department (DPD) completed a comprehensive upgrade to its operations command center known as the Dallas Fusion Center. The upgrade extended the center's operations to 24 hours a day, 7 days a week and enhanced its information-gathering capabilities. Working with The Whitlock Group, a systems integration company, the DPD selected a Jupiter Fusion 960



Display Wall Controller to manage the increased number of input sources and applications for the existing display wall of six 60-inch Christie DLP cubes. The Fusion controller can manage all the visual data sources found in a control room environment, including streaming video, and arrange them in moveable, scalable windows on a virtual display. In the Fusion Center, data sources include local applications, remote network applications and directly connected video and analog RGB inputs. The DPD is particularly enthusiastic about the Jupiter ControlPoint Pro software and its full suite of user-friendly tools that seamlessly and intuitively control the display wall and its visual sources. Completed in less than four months, the upgrade has significantly improved intelligence gathering and analysis, reduced response time and helped improve community relations, according to the DPD project coordinator.

CASE 3: OTTAWA CENTRAL AMBULANCE COMMUNICATIONS CENTER (OCACC)

In the city of Ottawa, Canada, nearly 400 highly trained paramedics respond to more than 100,000 calls each year involving a wide range of medical emergencies, fires, water rescues, industrial accidents, hazardous material incidents and police operations. They form an integral part of the city's emergency preparedness team and are the sole medically certified providers of out-of-hospital medical treatment. The Ottawa Central Ambulance Communications Center (OCCAC) employs a team of 52 communication officers and seven supervisors to handle call taking, prioritization and paramedic deployment for the city as well as a large portion of the eastern Ontario region.

DALLAS POLICE DEPARTMENT'S FUSION CENTER

The OCACC is a 24/7/365 operating environment in a newly constructed 5,000 square-foot room with a 14-foot high ceiling and clear sight lines to a 9 x 3 display wall controlled by a Jupiter Fusion 980 Display Wall Processor. Data and video are displayed real-time and can be seen by all operators, enabling high levels of situational awareness. A 400 square-foot room within the building is designated a training lab. The training lab mimics the functionality of the OCACC using a Jupiter PixelNet® Distributed Display Wall System to enable operator training and also serves as the onsite backup center.

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ABOUT JUPITER SYSTEMS

Jupiter Systems is the leading worldwide supplier of display wall processors for command and control applications. Jupiter's best-of-breed products are designed for continuous, 24/7 operation and are used in network operation centers, electric power generation and distribution control rooms, boardrooms, intelligent traffic control rooms, 911 dispatch centers, financial management control centers, surveillance and security centers, and fixed and mobile military operations control centers in thousands of installations around the world. All Jupiter products are built in the company's ISO 9001:2008-certified US factory. For more information, please visit www.jupiter.com.

JUPITER SYSTEMS PUBLIC SAFETY INSTALLATIONS

Los Angeles Police Department, California
 Dallas Police Department, Texas
 President's Office, Colombia
 Ishikawa Police, Japan
 Saga Police, Japan
 SSP Mexico City Police, Mexico
 Center for Research and National Security, Mexico

Mexicali Police, Mexico
 Cancun Police, Mexico
 Monterrey Police, Mexico
 CECAT (Barcelona)
 Cities of Glendale, AZ and Los Angeles
 Ottawa Emergency Operations Centre
 Air National Guard (US)
 US Department of Defense

US Department of Health and Human Services
 US Federal Emergency Management Agency (FEMA)
 US Department of Homeland Security
 Executive Office of the President
 CIA
 NSA