Solutions for Transportation Security
Successfully managing and securing critical infrastructure presents an enormous challenge, whether you’re a government agency, a large corporation, or a private company. Each desires the same results — efficient operations, good business practices, improved visibility and management of all assets, and effective, comprehensive security solutions. However, legacy internal systems, antiquated processes and procedures, and outdated security technologies can hinder or even prevent these enterprises from attaining this goal. Only by integrating technology solutions to support decision making can governments and businesses manage and secure their complex operations.

Security planning must anticipate intelligent, adaptive adversaries who are intent upon creating terror and confusion and complicating emergency response by causing diversions and multiple simultaneous incidents. In such circumstances, the sheer volume of inputs from alarms, sensors, closed-circuit televisions (CCTV), and situational reports can overwhelm an incident management team and provide an unclear picture of the unfolding situation.

Recognizing that each agency or organization has its own issues, Intergraph provides public safety and integrated security solutions based on your specific needs.
Integrated Security Solutions

Government, military, and commercial sectors worldwide are working rapidly to improve their ability to prevent, detect, assess, respond to, and recover from emergencies to provide increasing protection of valuable infrastructure and assets. Intergraph provides a variety of integrated security solutions that combine emergency and incident management with cutting-edge sensor, alarm, and video surveillance technologies. These solutions can help you protect and secure assets, mitigate security threats, and make fast, effective emergency response decisions. We address your entire security system life cycle – project management, site survey, system design and integration, and training – to help you get up to speed quickly.

Incident Management

Intergraph’s incident management solution provides multi-agency responses to major events, such as terrorist attacks, natural disasters, or emergency transportation incidents. It is imperative to have a strategic and tactical plan in place before a major incident occurs, and then be able to execute that plan quickly with the full cooperation of all organizations involved. Efficient and coordinated management of incidents reduces adverse impacts on public safety, transportation infrastructure, and the local economy.

While many single-purpose technologies exist for security issues – such as surveillance, detection, and assessment – the lack of integration in a common operating picture can easily put incident commanders into an overwhelming overload. As the number one provider of emergency incident management systems in the world, Intergraph has helped our customers respond to a wide array of public safety incidents and major events for 15 years.

Our effective first response solutions enable you to share incident data and provide coordinated incident response.

New York Metropolitan Transportation Authority

Intergraph was selected as part of the Lockheed Martin team to provide an Integrated Electronic Security Solution for the New York Metropolitan Transportation Authority’s (MTA) transportation infrastructure. Intergraph’s proven, commercial-off-the-shelf foundational security technology will dramatically enhance the security of the largest transportation system in North America by providing the ability to bring together all security sensor information into a single command and control system.
response and management across multiple tiers or regional public safety systems. Our solution provides a unified platform to receive, manage, and report disparate information generated by alarms, sensors, radio messages, telephone calls, or access control devices. The system integrates these diverse bits of information into a common operating picture, providing an intelligent, integrated transportation facility map that increases situational awareness.

**Multi Agency**

Public safety agencies, departments of transportation, airports, transit agencies, port authorities, as well as national, regional, and local government agencies must work collaboratively to ensure the safety of passengers, crews, workers, and the general public. In this era of increased security, the key to interoperability between public safety agencies, private organizations, and federal, state, and local officials is continuous information exchange. Appropriate personnel must rapidly identify, report, and respond to incidents. Intergraph’s solutions give the platform to quickly receive, fuse, manage, and report disparate information from multiple agencies. The capabilities include:

- Comprehensive incident tracking
- Early detection and threat monitoring around perimeters and buffer zones
- Real-time incident analysis using state-of-the-art geospatial tools
- Integration of asset and responder locations with intelligent maps
- Incident management / decision-support systems for police, fire, EMS and transportation security agencies.

We can deliver intelligent transportation management solutions that integrate real-time data and planning tools for incident management. Large-scale emergencies rarely involve just one agency. Intergraph’s solution is a true multi-agency system that supports local operations while providing the command view required for a coordinated response across many agencies. In one interface, we can integrate all types of data — tabular, GIS, CAD, and vehicle location — as well as information from agencies outside your organization.

**San Francisco International Airport**

One of the busiest airports in the United States, San Francisco International Airport provides all public safety services from its own operational base. Intergraph’s emergency dispatch system maps the entire complex, including all floors, giving security personnel a common display of everything around, above, or below the location of an incident.
Intergraph has a strong and broad transportation security customer base. Chicago O’Hare Airport and San Francisco International Airport have relied on Intergraph’s security solution for years. German Rail, the German Federal Police and Securitrans / Public Transport Police, Switzerland, also use the same core technology to provide security and effective incident management throughout transportation infrastructure in Germany and Switzerland. Intergraph’s proven commercial-off-the-shelf security technology was also selected to dramatically enhance the security of the largest transportation system in North America, the New York Metropolitan Transportation authority’s (MTA) transportation infrastructure.

For example, the San Francisco Police Department Airport Bureau manages the emergency response at the San Francisco International Airport, the largest international terminal in North America. The airport had many disparate systems and outdated dispatching processes.

By integrating these disparate systems, Intergraph enabled the Airport Bureau to monitor the location of incidents in real-time, enabling decision makers at all levels to quickly and efficiently make appropriate decisions during times of high-level activity.

Intergraph integrates sensor and alarm technologies with our incident management systems to provide security in a cost-effective manner. We can integrate thousands of sensors, such as motion detectors, magnetic switches, shatter alarms, smoke detectors, video cameras, and CCTV. Instead of maintaining independent systems that require additional personnel to monitor situations, Intergraph integrates this information in a single desk-top display to get a fused picture of the situation. With this technology, you can visually monitor assets or facilities on a multi-screen display, track events, and manage response assets.

Asset visibility enhances crisis management
Threats are targeted at people and infrastructure. It is critical to have accurate, up-to-date information about these assets to effectively manage crises and consequences. Asset visibility, which provides a view of resources available to respond to an incident, is vital. Intergraph solutions enable users to see the status, capabilities, and constraints to these assets in order to effectively manage crises.
Effectively deter, delay, detect, alert, protect, respond and recover from any situation, threat, or incident with a security solution that ties all the physical security elements together:

- State of the art command and control
- State of the art emergency operations center
- A map based common operational picture (COP)

For example, at San Francisco International Airport, Intergraph integrated a CCTV interface with a map of the airport, giving Airport Bureau dispatchers the ability to “see” where events are occurring. Icons representing camera positions allow dispatchers to select the appropriate camera to view an event on a local monitor.

**Mobile Resource Management**

Our mobile resource management solutions help you manage, track, and protect your critical resources such as vehicles, maintenance, and security personnel. Our solutions integrate multiple sources of disparate data, including real-time location information for intelligent analysis; monitor large numbers of mobile resources and assets; and then alert personnel to changing conditions to enhance critical decision-making. In addition, Intergraph products can assign work or respond to emergencies based on which resource is nearest and available. With our mobile resource management solutions, you can track the location and activity of any asset – saving you time and precious manpower.

**Why choose Intergraph?**

We recognize that each customer’s needs are different, and satisfying those needs requires a customer-centric approach. Using innovative, industry-proven products, Intergraph implements user-specific solutions through quality service and business expertise. Our organization provides leading-edge solutions to protect the public and critical infrastructure.

Intergraph Corporation’s solutions enable some of the world’s largest governments and businesses to ensure the safety and prosperity of the world around us. Our customers do great things. They build and manage complex systems and operations that make the world work from oil and gas, utilities, communications, and transportation networks to homeland security and public safety systems. Our software and services play a vital role in their ability to manage and understand the complex data behind these systems, offering certainty that they can make the right decisions at the right time.
Intergraph provides customers with:

- Industry-proven products
- Quality service
- Open standards
- Business expertise and domain knowledge
- Commercial-off-the-shelf (COTS) solutions to lessen implementation costs

We offer more than technology. Intergraph provides a comprehensive, holistic approach to helping organizations prevent, detect, assess, respond to, and recover from threats against people and property.