CRITICAL INFRASTRUCTURE PROTECTION
PROTECTING CRITICAL INFRASTRUCTURE, such as power distribution facilities, communications networks, and water supplies, is a major step toward preventing chaos. This involves planning that anticipates multiple, simultaneous incidents that cause panic and threaten personal safety. In those situations, the volume of data from alarms, sensors, and other systems can overwhelm security teams and increase risks. That’s why your security solution must do more than provide raw data – it must provide intelligence, automation, and interoperability to support rapid, coordinated response.

Consider this scenario. A terrorist attack on an electrical grid causes outages, panic, and a cascading breakdown of other systems. Sewage pump stations stall, cash machines fail, and the banking industry collapses. Simulations reveal that economies dependent on electronics during such an event would then turn to cash-only transactions, creating untold hardship, desperation, and crime.

Consequences of communications failure ripple out in a similar way. People rely on smart phones, laptops, tablets, and other mobile devices during an emergency. As useful as they are, these networks are vulnerable to threats. Cyber attacks, cable cuts, copper theft, and other sabotage can be extremely difficult to thwart. It’s essential for a security solution to detect, assess, and respond to disruptions with unfailing speed.

Intergraph®’s critical infrastructure protection solutions increase situational awareness – without interfering with daily operations. We integrate geospatial technology, sensors, situational reports, and mobile communications with human factors and adherence to standard operations procedures. We give you real-time information to accelerate smarter decisions in a crisis.
INTEROPERABLE SOLUTIONS

Intelligence-sharing among local, state, and national agencies requires interoperability. Intergraph's solutions provide an integration engine to leverage multiple technologies, communication devices, sensors, and data, to help achieve unity of command.

Intergraph works with leading alarm, video, and sensor vendors to bring you standard-based adapters that speed implementation and save money. We enable the immediate sharing and exploitation of intelligence among security agencies, first responders, incident managers, and other relevant personnel. We work with other technology leaders, such as Microsoft®, Oracle, large system integrators, academic and non-profit organizations, and government agencies worldwide.

To promote mutual aid, we integrate our solutions, including risk and compliance management, using standards such as the Open Standards Security Alliance, Open Geospatial Consortium (OGC®), and National Information Exchange Model (NIEM).

Sensor and Video Integration

Facilities use cameras, access control and monitoring devices, and other sensors to gather intelligence. Video feeds, motion detectors, radio frequency ID, and other systems are essential to an effective solution. But these devices generally come from different vendors and use different data types. How do you combine them into a cohesive system?

Intergraph’s unique and flexible platform is the answer. We give you an easy way to connect to external systems and devices, regardless of what hardware you’re using. We offer you a remotely configurable, no-code approach, replacing the need for costly, custom-coded interfaces.

By combining multiple data types, customized business rules, and industry-standard databases into a common view, we provide a single source of real-time insight and a scalable integration hub for future growth.

Detection and Analysis

Security threats vary from minor breaches to large-scale attacks, so you must be prepared for anything. But how do you determine what’s really happening?

Whatever the threat, our software gives you the awareness you need. For example, the system can automatically display a video feed covering the location of a suspected breach, such as the tripping of a motion sensor due to unexpected activity.

Our solution integrates with video analytics to rule out false positives by “learning” what constitutes
routine activity and limiting detection to real anomalies. This saves time often wasted on investigating alerts that turn out to be routine occurrences, such as birds flying past a motion sensor or the vibration of heavy equipment.

Here’s an example of our solution at work. Let’s say an intruder jumps a fence and enters a restricted area in an attempt to steal copper. This trips multiple sensors that register as alarms on a geospatial display. The operator, who can see the intruder’s location on a map, has immediate access to the video feeds covering the intrusion. The operator can now see that an unidentified person is tampering with critical equipment.

Once a threat is confirmed, our intuitive, interactive system gives you the tools to move quickly toward resolution or containment.

Response Management
You know the threat, and you’re ready to act. Does your software solution have what it takes to support your plan? Intergraph’s solution does. From notifying a guard on duty, to alerting local authorities, to dispatching responders, we provide the automation you need.

To accommodate a world in motion, our mobile technology puts the right intelligence into anyone’s hands, regardless of their location. Our interoperable software supports voice and data communications, including multimedia, on Apple iPads and iPhones, Blackberry devices, and other tablets and smartphones. That means you can quickly summon security guards, alert employees to evacuate, and send other emergency notifications – including calls for assistance to state and national agencies.

Our Unique Approach
So, how is Intergraph different from other vendors? The answer is a combination of industry expertise, interoperability, and integration.

First, Intergraph has decades of experience understanding the daily operational needs of utilities and communications. By adding that knowledge to our CIP solutions, we implement technologies that integrate seamlessly with existing systems to reduce risks and lower operational costs. We can help you devise a plan that protects people, facilities, and services, without breaking your budget.

Next, there’s our Security Framework, powered by our exclusive EdgeFrontier® integration engine. With our no-code approach to physical security information management, we quickly turn your security data into situational knowledge. We offer fast and easy interface deployment to just about any video or sensor systems, achieving real-time awareness that speeds response.

Gone is the need for operators to constantly monitor surveillance video and other data. Our common operating picture sends alerts of your choice when an incident occurs. Our solutions support the whole incident life cycle – from detection through response and mitigation of damages. Our expert team can help you plan for any contingency to implement a high-availability, high-redundancy solution that protects your enterprise around the clock.

Look to Intergraph to help you plan for any contingency. With Intergraph technology, you can save lives and minimize disruptions to your community, as well as to your bottom line.
MAKING A GLOBAL IMPACT

Customers in more than 28 countries, speaking 14 languages, use Intergraph public safety and security solutions. We service in excess of 2,500 agencies that provide police, fire, emergency medical, all-hazards security, and related services. In fact, Intergraph is the choice of public safety and security agencies that protect 1 in 12 people in the world.

Algeria  Argentina  Australia  Austria  Belgium  Brazil  Canada  China  Denmark  El Salvador  England  France  Germany  India  Isle of Man  Italy  Jordan  Liechtenstein  New Zealand  Poland  Portugal  Scotland  Spain  Switzerland  Thailand  Turkey  United States  Wales
Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation and data management of plants, ships and offshore facilities. Intergraph SG&I provides geospatially powered solutions, including ERDAS technologies, to the public safety and security, defense and intelligence, government, transportation, photogrammetry, and utilities and communications industries. Intergraph Government Solutions (IGS) is a wholly owned subsidiary of Intergraph Corporation responsible for the SG&I U.S. federal business.

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