



/// WatchIT[®]

/// A new generation of watchstanding technology built around the watchstander

Watch Information Technology (WatchIT[®]) is a robust, leading-edge geospatial technology that aggregates sensors, controls and information into an extensible, geospatially aware application. WatchIT[®] is an easy-to-use, flexible, Service Oriented Architecture-based technology solution for maritime domain awareness, critical infrastructure protection, regional watch and any other operation with a geospatial component.

Incorporating automatic identification system (AIS) transponders, radars and other sensors, WatchIT[®] monitors, records and automates maritime surveillance, security and safety planning, early warning, first response and threat mitigation activities. It can be quickly and easily integrated with almost any kind of sensor and provides accurate, actionable and real-time mission-critical information via an industry-leading geospatial display. It is a proven and cost-effective technology based on many years of expertise and experience in developing military command and control, communications and electronic mapping and sensor systems.

The system provides electronic logging of events such as emergency incidents, policy-based response plans, data sharing and routing among appropriate operations centers, situational analytics, intelligence and asset management. The system allows modules to be introduced and upgraded without loss of investment in the base system. This configuration provides both ease of deployment and life cycle management.

In addition, it delivers commercial navigation quality precision using a chart engine that meets many International Standards and is currently in use for navigation on many military

vessels. WatchIT[®] is open architecture-based and modular, providing flexibility for expansion or reconfiguration and easily enables the addition (or removal) of new functionality, sensors and subsystems through a published interface. No modifications to the application are needed to obtain this functionality and it can access resources at the edge as though they are in the same building. Leveraging existing Active Directory security infrastructure, WatchIT[®] can plug into an existing domain and provide operators with access control to sensors, controls and data. Operators are given a simple-to-use interface with maximum flexibility in administering and operating the system.

WatchIT[®] was designed to monitor information that has a geospatial component. It serves as a workspace for this information where monitoring position, movement, values or relation to other information provides situational awareness. Because WatchIT[®] is mission/purpose agnostic, it is highly adaptable to system building when requirements are fluctuating, expansion is imminent or when legacy systems must be used with newer technology. By using a common software base for application development, economies



WatchIT[®] Benefits:

- Enhance essential security operations and minimize operational losses
- Protect and manage critical assets
- Organizational view of all facilities, sensors and information resources
- Plug and play approach reduces deployment time

WatchIT[®] Features:

- Total operations management in one application
- Manage from client desktop
- Security and Operations Plan Manager
- Highly accurate geospatial environment with 16 major projections
- Command, multi-agency and multi-national views
- Immediate fusion of policy, actions, sensors, communication and intelligence
- User-developed operating procedures and emergency action plans
- Automated analysis, logging, response plan communications and dispatch
- Service oriented architecture (SOA)-based system built on custom, open interface technology (ResourceNet[™])
- Intuitive user interface on Microsoft Windows[®] Platform

Why Choose GLOBAL Defense Technology?

- Nearly 40 years of experience in the national security sector
- Deep domain and analytical expertise
- Trusted partner in defense, intelligence and homeland security
- Integrated technology, intelligence operational support and engineering solutions



of scale are realized and nonrecurring engineering costs are reduced.

WatchIT® uses a familiar Microsoft Windows® interface and is designed for the desktop-user-level of computer expertise. It minimizes training and start-up time and readily accommodates policy and mission changes. WatchIT® automates many common watchstanding functions and responses (automatic AIS and operator-to-operator messaging, e-mail alerts and automated telephone and radio messaging), thereby reducing workload on watchstanders during high-tempo operations, as well as a more consistent response independent of the watchstander's capabilities. This is accomplished by means of various graphical user interface (GUI)-based profile builders/editors such as Spatial Profile Builder, AIS Nationality Profile Builder and Response Plan Builder. Moreover, automated analysis, logging, response plan communications and blue force dispatch streamlines the effort to manage large or complex areas.

Today, WatchIT® and its core technologies are being used successfully for a variety of government projects worldwide, including maritime domain awareness and other asset management and tracking projects.

Lloyd's MIU Intelligence Data

- Worldwide Vessel Movement History
- Current AIS Static Data
- Intelligence and Risk Scoring
- Vessel Photographs
- Casualty and Incidence Details
- Ownership Details
- Security and Operations Plan Manager

Security and Operations Plan Manager

A central component of WatchIT® is the Security and Operations Plan Manager, which is used to build rules that are incorporated into policies that define alarms and automated actions when the policies are broken. The

rules can be based upon spatial analysis, temporal analysis, motion analysis, AIS intelligence scores from Lloyd's MIU and many other criteria. Security plans are sent to the facilities/watchstations from a command console to maintain consistent policies across the operation centers. Sectors and areas can have many policies and alarms can be routed to appropriate responders (police, fire, ambulance or immigration, marine inspection and customs). Views of the same area are specific to the viewer and based on the responsibility of the watchstander. Alarms are distributed to all stations or a select few based on the security plan. Watchstations can subscribe to other watchstation's alarms. All alarms are routed to the Command View along with Response Plans status as the steps are completed, preventing an additional phone call to the watchstander during high-tempo operations. Alarms are logged at the Command console, as well as Subscriber consoles.

Watchstanding Automation

WatchIT® can automate many routine operations such as logging, alert/alarm distribution, scheduling and sensor assignment. Messages are sent automatically to recipients based on operator-defined rules, operating areas and response plans. Operators can define message areas with an overlay, create rules that apply to that overlay and define response plans that are executed automatically when defined criteria are met. They can then define a message that is sent automatically when safety zones are traversed. Although operator intervention is not required for many types of messaging, alerts will be sent to operators and all such messages will be logged.

WatchIT® comes with an easy-to-use graphical user interface for building security zones, inclusion and exclusion zones and other operational overlays with attached notes. Operators can easily build operational overlays, by

simply drawing on the screen, for vessel routing schemes, regulated navigation areas, safety and security zones and other areas where vessel speed or access is restricted. WatchIT® will replay out of electronic logs, enabling watchstanders to replay search vessel tracks to evaluate coverage efficiency and enable the redirection of assets as necessary.

Automated Response/Action Plans

- For each rule that generates an alert, alarm or event trigger, the Security Plan can include a Response Plan that is displayed to the operator
- Pre-approved Response Plan provides consistent responses from all watchstanders
- Response Plans are entered in the Security and Operations Plan as a pre-approved, step-by-step response to a situation
- Response Plans can be local or enterprise level
- Response Plans provide automated logging of each completed step and serve as a method of communicating status to subscribers
- Response Plans can deliver messages from the Security Plan via e-mail or via a text-to-speech reader to individuals or groups
- Response Plans reduce response time by providing points of contact, instructions for actions and a single source for all information required to complete the task

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