



TOTAL MARITIME DOMAIN AWARENESS

LARUS TOTAL::INSIGHT™ HIGH LEVEL
INFORMATION FUSION ENGINE (HLIFE)

With over 90% of the world's trade carried by sea, it is more critical than ever to secure maritime operations to ensure the uninterrupted flow of raw materials and finished goods, as well as oil and gas supplies worldwide. The major challenge facing Maritime Domain Awareness today is how to deal with the saturation of information associated with monitoring thousands of vessels which travel by sea each day.

Larus Total::Insight™ uses advanced patented technology to continually learn your environment and constantly improve the intelligence in order to optimize Maritime Domain Awareness for decision makers.

The key to solving this problem lies in next-generation C4ISR and Security technologies that can quickly ingest massive amounts of data and rapidly optimize situational awareness for decision makers.

Automatic identification system (AIS), synthetic aperture radar (SAR) and long-range identification and tracking (LRIT) are all examples of available structured multi-sensor data sources in the maritime domain. These data sources can be combined together, along with unstructured data such as incident reports, sea state reports and field infor-

mation in order to provide decision makers with the most accurate and timely actionable information possible. How is this achieved?

LARUS TOTAL::INSIGHT™

How smart is your intelligence? Total::Insight's patented learning algorithms are constantly and continually improving the quality of information in order to optimize situational awareness. Total::Insight is an embedded HLIFE for 21st century defense and security mission-critical decision making.

Total::Insight easily integrates with existing fusion architectures to provide a flexible and scalable foundation for next-generation air, land and maritime C4ISR and Security applications.

Product overview

Using computational intelligence, advanced learning techniques, prediction and high level information fusion capabilities, Total::Insight combines and analyzes the information from a variety of sources including passive and active sensors, existing L0/L1 trackers and correlators, as well as from a multitude of other data sources (e.g. weather reports, operator reports, web pages). This allows Total::Insight to sift through vast amounts of data, capture complex relations which result in the learning and the real-time recognition of patterns, events and anomalies in order to always produce the most accurate information possible and to continually optimize situational awareness for decision makers.

Packaged as licensable software components for Defense Contractors and System Integrators, the modular design of Total::Insight uses a service oriented architecture (SOA). This architecture allows for a seamless integration with existing C4ISR and Security systems or, in the case of new development projects, Total::Insight provides a flexible and scalable foundation for your next-generation air, land and maritime C4ISR or Security applications.

Professional services

Total::Insight is a COTS HLIFE that can be licensed by Defense Contractors and System Integrators. Combined with our professional services, customers can take advantage of our highly skilled team at any stage of their product development cycle to get their solutions to market on time and on budget.

ACT ON THIS INTELLIGENCE TODAY

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About Larus Technologies Corporation

Larus Technologies Corporation is an innovator of next-generation embedded technology for developers of mission-critical C4ISR and Security systems. With a solid foundation pioneering high level information fusion for the ever-changing defense and security industries, Larus is perfectly positioned to help Original Equipment Manufacturers (OEMs) make a world of difference. Our technology not only delivers more knowledge, its adaptive learning algorithms deliver more accurate and more predictive information—faster. With our technology under the hood, your customers will make better decisions and more precise interventions. **Visit larus.com.**

TOTAL::INSIGHT QUICK FACTS

Technology

- ▶ Commercially available JDL Level 2-3-4 HLIFE
- ▶ Patented adaptive behavioral learning algorithms
- ▶ Predictive modeling algorithms
- ▶ Subset of capabilities includes anomaly detection, threat assessment, track prediction, response assessment, situational and procedural learning
- ▶ Supports a variety of hard and soft data sources
- ▶ Easily extensible to support additional data sources
- ▶ Easily integrates with existing L0/L1 trackers and correlators
- ▶ Supports multiple thousands of tracks at once
- ▶ Subscription channels for dissemination of tracks and events
- ▶ API for integrating with any command and control system
- ▶ Network enabled, can scale to thousands of nodes
- ▶ Portable code based on standard ANSI C++
- ▶ Licensable software components

Differentiates your offerings

- ▶ Total::Insight uses advanced patented technology to continually learn your environment and constantly improve the intelligence in order to optimize Maritime Domain Awareness for decision makers
- ▶ Sifts through vast amounts of data while enabling unprecedented information fusion capabilities

Delivers value to your business

- ▶ Easily integrates with your existing fusion architecture

Competitive advantage

- ▶ Accelerated time-to-market
- ▶ Minimized risk

