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GeoVigilance for free at
www.objectfx.com

GeoVigilance™

VISUALIZE

Geospatial Awareness Platform

Real-time decision support and pattern detection

Applications

GeoVigilance's flexible user interface gives users the capability to perform real-time tracking and analysis of location-based events for intelligence gathering, military missions and commercial applications.

Intelligence, Law Enforcement and Homeland Security

- Geospatial Intelligence Gathering, Analysis and Dissemination
- Critical Infrastructure Protection
- Surveillance and Threat Detection
- Port and Border Security

Military

- Common Operational Picture
- Situational Awareness
- Force Protection
- Blue/Red Force Tracking
- Logistics

Commercial

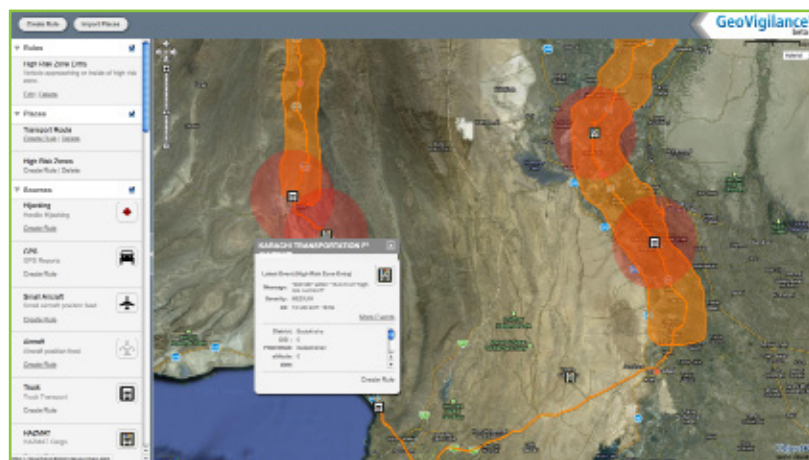
- Transportation/Logistics
- Supply Chain Management
- Field Force Management
- Mobile Advertising
- Business Intelligence and Analysis

The demand for complex geospatial analytics is on the rise. At the same time, the volume of geospatial data being produced is already overwhelming the tools and human resources dedicated to geospatial analysis. Analysts and decision support professionals are under ever-increasing pressure to deliver results, and are seldom equipped to meet such demands.

Finally, there is a tool that can process tens of thousands of data points, abundant types of data with no restrictions, using time and space event rules, so that analysts can solve their most perplexing geospatial data analysis problems.

Real-Time Decision Support

GeoVigilance is a location-based awareness platform designed to aid users with real-time, geospatial decision support. GeoVigilance is powered by ObjectFX's proven, geospatially-focused complex event processing engine, SpatialRules®. The power of this engine can now be placed in the hands of analysts and decision support professionals without the need for programming or scripting experience. GeoVigilance provides a library of user interface components that are flexible enough to be adapted to a user's specific needs and preferences. This component-based interface approach allows for easy integration into new and existing applications.



Screenshot of GeoVigilance running a convoy tracking scenario

Analysis of geospatial and temporal data requires flexibility in the workflow and parameters that drive the decision-making process. GeoVigilance enables users to create, edit and remove event definitions on demand. Users can employ iterative techniques to refine event and pattern of life definitions and use the results as a parameter for real-time event detection and notification.

Complex Pattern Detection

GeoVigilance enables the establishment of event and place definitions that can catalog recurring incidents over time for pattern detection. Spatial and temporal rules are created to relate to the probabilities of an event occurring when known behaviors are discovered. GeoVigilance supports the application of inferential techniques to form automated decision support models.

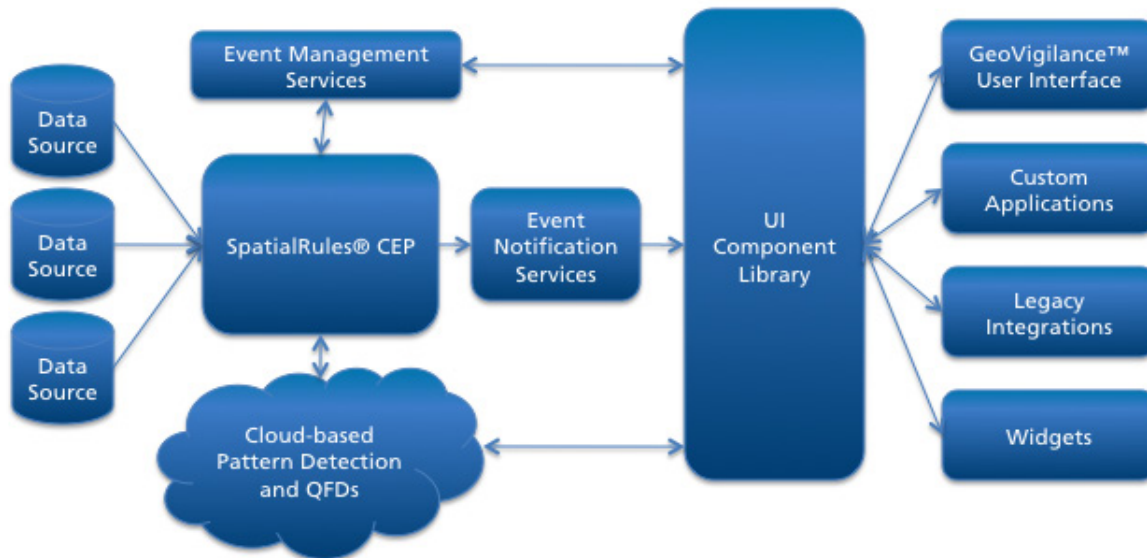
The capability to catalog and provide predictive capabilities can support a logical architecture based on question-focused data sets (QFDs). Data sets are derived from enterprise data through the application of rules. These rules generate results that are sent to a database for further evaluation.

GeoVigilance allows for the simultaneous exploration of these actions in a live environment through the application of advanced capabilities that populate the automated decision support database with spatial and temporal data. Alerts are then applied for use in responding to decision points in current operations, conducting course of action reviews for future operations, or understanding the requirements for operational planning and contingencies.

GeoVigilance Benefits:

- Combine and monitor data from multiple sources, including dynamic to dynamic data analysis
- Highly scalable and powerful underlying Complex Event Processing engine, SpatialRules
- Out-of-the-box analyst ready UI
- Fast and efficient rule evaluation that can be altered “on the fly” without program restart
- Real-time data processing

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Location-based intelligence is applied to complex data sets as they are pushed through SpatialRules in the diagram above. Dynamic inputs (human or machine) are used to apply events before the data is run through a customizable user interface component library. Results are delivered through GeoVigilance, to be consumed by a myriad of clients on virtually any hardware platform (ex., mobile devices, thick client desktop tools, and more).