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<http://download.objectfx.com>

SpatialRules®

ANALYZE

Complex Event Processing Engine

Intelligently manage the flood of geospatial data

Applications

SpatialRules, combined with infrastructure for collecting real-time data from location-determining systems, creates a wide range of possibilities in 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

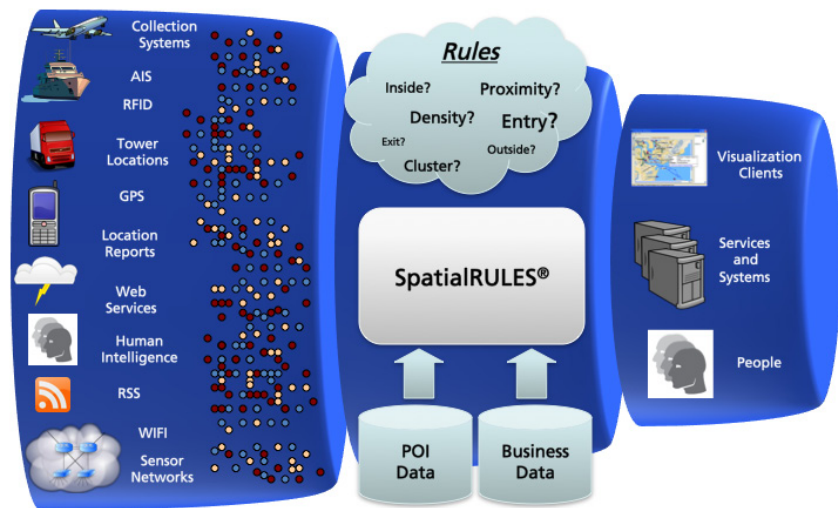
Commercial

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

Version 3.1

The sheer volume of information streaming from sensors and collection platforms is overwhelming. As a result, data is ignored and underutilized, leading to missed opportunities. SpatialRules answers the need for increased data utilization by continuously scanning for conditions of interest among millions of moving objects, dynamic events, or static emitters. Use SpatialRules to monitor territorial waters, shipping lanes, airspace, littoral zones, geofences, and other operational areas that you define to get the right information to the right people at the right time.

Streams of data from sensors and collection systems outpace the human capacity to detect and respond to rapidly changing conditions. SpatialRules increases the fidelity of the data you're already collecting by providing the means to separate high-value conditions from the "noise." Moreover, synchronizing timelines and correlating events is essential to cross-examining multiple data sources. Incorporating SpatialRules in tradecraft workflows provides the ability to cross-monitor multiple data sources and enhance 24 x 7 monitoring tasks, freeing users to focus on other challenges.



Benefits of using SpatialRules

- Monitor large volumes of data in real-time as it is collected— SpatialRules can analyze over 10,000 objects **in less than 1 second**
- Perform analysis across multiple data sources including; static to static, static to dynamic, and dynamic to dynamic
- Integrate geofencing and spatio-temporal analysis through a service-oriented, commercial-off-the-shelf (COTS) product
- Enforce policies and standards
- Automate forensics based on the past and current experience of the entire enterprise
- Filter and route data based on areas of responsibility
- Accept input as KML/KMZ, GeorSS, GML and Shapefiles

- Provide monitoring and analysis continuity throughout the enterprise and across shift changes
- Integrate as a service with any development environment including Java, .NET, Python, Ruby and more

As a rules-based processing engine, SpatialRules interrogates geospatial and time-based data components. Using SpatialRules you can apply rules in 2D and 3D space and visualize the results in any GIS tool such as SpatialFX®, Google Earth or other third party solution. You can also post results to queues and web services, write them to a RDBMS or KML file, publish them as RSS or JSON feeds or notify people using SMS, email or automated phone systems. Do more with the data you already have by integrating SpatialRules as a service into existing and new applications. You can create or adjust rules on-the-fly, without restarting the server, while monitoring large populations of objects (millions or billions) at high throughput rates.

SpatialRules Monitors:

- Entry and exit of zones
- Presence within areas
- Boundary or line crossings
- Area coverage and overlap
- Boundary or line intersections
- Distance to or beyond objects
- Proximity within time window
- Cluster formations
- Schedule compliance
- Density in area within time window

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