EsperTech

Event Stream Intelligence
Continuous Event Processing for the Right Time Enterprise
Case Study: AeroScout

EsperTech's Event Stream and Complex Event Processing software turns large volume of disparate real-time event streams into actionable intelligence.

AeroScout

Esper's CEP is integrated and is used as the single Event Engine for the AeroScout MobileView 4.0 platform.

Customer brief

AeroScout is the market leader in Unified Asset Visibility solutions

The company's products accurately monitor the location, condition and status of assets and people over standard Wi-Fi networks to improve and automate business processes.

AeroScout's global customer base includes many of the Fortune 500 and the world's leading hospitals. Founded in 2000, AeroScout pioneered the Wi-Fi visibility market by introducing the industry's first Wi-Fi-based Active RFID tag, and is widely recognized as leading this market. AeroScout is headquartered in Redwood City, California, with offices in Europe, Asia, the Middle East, Latin America and Australia.

Business Challenge

AeroScout's MobileView

AeroScout's MobileView turns asset visibility information received from multiple data sources into real business solutions, delivering sophisticated mapping, rules-based alerting and reporting functions in a scalable, enterprise-proven software platform.

MobileView is the business facing application that complements any AeroScout deployment, and is a critical layer that ultimately presents all collected situational information to business users, applying customized rules pertaining to the user asset tracking scenarios - such as **real time tracking of assets entering or leaving certain areas, monitoring the condition thresholds of sensitive items** (i.e. temperature, humidity), or alerting on inventory shortages or overflows. Using MobileView, users gain complete enterprise visibility from a single platform to automate business processes and deliver context aware applications. The MobileView platform must keep on scaling with a growing number of assets and industry specific use cases.

These use cases require additional and more complex events for expressing asset tracking rules throughout the product's lifecycle.

Solution

EsperTech's CEP software

During the early stages of a research project for its next generation MobileView version, AeroScout evaluated several CEP software vendors from large to small including EsperTech, and short listed two for implementing a prototype as well as benchmarking the product's performance.

AeroScout selected EsperTech's Esper CEP after this careful evaluation and proof-of-concept testing. **EsperTech's CEP engine proved to balance flexibility and ease of development together with high throughput.** The product development team became quickly familiar with the Esper CEP engine configuration options and its EPL continuous-query language. EsperTech met AeroScout's requirements to be able to support a very large amount of assets and events simultaneously.

Sales and OEM Licensing
info@espertech.com
http://www.espertech.com
(+1) (877) 994 7368

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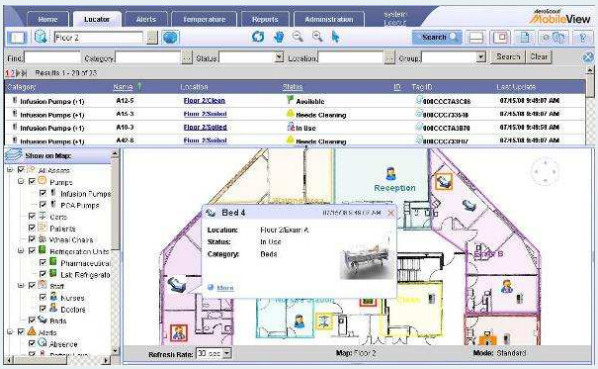
Solution

The following screenshots taken from MobileView demonstrate the richness of the application and how the EsperTech product was embedded within it

Web-based intuitive mapping tools



MobileView events are easily configured via a Web-based wizards and templates
Alert dashboards enable users to view and react upon events that were triggered

Results

Customer success

AeroScout entered into an OEM agreement with EsperTech for its **Esper Complex Event Processing (CEP) product to deliver real-time asset visibility** based alerts. Esper's CEP is integrated and is used as the single Event Engine for the AeroScout MobileView 4.0 platform.

The Event Engine enables developers to easily create sophisticated rules-based events, which are configured by the users and triggered by asset location, condition and status, and it is capable of processing events with tens of thousands of asset transactions simultaneously.

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