Executive Brief: Oracle’s Public Safety Solution for Intelligence Hub and Alerts

Advances in technology have significantly increased the capabilities of intelligence organizations to gather vast amounts of intelligence data and to perform sophisticated analyses of this data. However, these same advancements have made mobile communication and IT capabilities accessible to a growing number of criminal and terrorist organizations. To combat these new threats, intelligence agencies need to be able to digest, analyze and make sense of hyper volumes of data, including structured and unstructured, in real-time speed. Existing tools focus on providing productivity and analysis aids to an intelligence analyst. Missing are the enterprise capabilities to systematically and securely manage large amounts of information. An expert system based on semantic technologies and domain ontologies enables the agency to identity relationships and connect the dots in this vast intelligence knowledge base. Collaboration among analysts and with outside agencies is facilitated but controlled according to policies.

Business Challenges

Broadly speaking, intelligence organizations face challenges in one or more of these areas:

- Organizational silos - information sharing on a “need to know” basis;
- High volume real-time data streams and feeds;
- Hyper-volumes of structured and unstructured data – both new and historical;
- Real-time event detection;
- Managing inter-agency task dependency;
- Optimizing analyst productivity;
- Protection against internal & external threats;
- Preventing policy and statutory violations;

Solution Strategy

Oracle's Public Safety Solution for Intelligence Hub & Alerts draws on the full breadth of Oracle’s proven strengths in enterprise information management combines a number of these components into a framework that can be deployed and evolved by customers and system integrators. In essence, it presents a design for the next generation of Intelligence systems and demonstrates how an extensive portfolio of Oracle’s own and partner capabilities is able to meet the challenges faced by all intelligence and law enforcement agencies.

The core strategy of the solution framework consists of:
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**Business Capabilities:**

- Open, flexible, extensible solution based on intelligence operational life-cycle
- Ontology-based processing of semi-structured and unstructured data; semantic and statistical based analysis and inferencing
- Unlimited scalability for all data types, formats & structures
- Integration of real-time & historical data: “on the fly” golden records file and high throughput real-time data processing and event detection

**Business Benefits & KPI's:**

- Ability to collect, evaluate, collate and analyze hyper-volumes of structured and unstructured data
- Dissemination of information and intelligence, including real-time alerts
- In a governed environment with strong protection against internal and external cyber threats

Enhances Existing Environments

Oracle's Intelligence Hub and Alerts solution provides a modular technology for semantic and ontology-based enterprise grade intelligence fusion, analysis, and alerts. It is designed to be an open, flexible, extensible solution based on the intelligence operational life-cycle (Collect/Evaluate/Collate/Analyze/Disseminate/Re-evaluate). Ontology-based processing of semi-structured and unstructured data enhanced the associated meta-data and promotes automated analysis of data, while semantic and statistical based analysis and inferencing improves searching and linking of data sets. Oracle's enterprise grade infrastructure provides unlimited scalability for all data types, formats & structures. Integration of real-time & historical data yields “on the fly” golden records files and high throughput real-time data processing and event detection.

As an open and modular solution, Oracle's Intelligence Hub and Alerts solution integrates into existing environments, protecting and enhancing existing investments.

![Figure 1. Key Capabilities and Benefits for the Intelligence Lifecycle](image)

**CONTACT US**

To learn more about Oracle's Intelligence Hub and Alerts solution, please contact your local Oracle Sales Team or Justice & Public Safety Industry Solution Specialist.