COGILITY

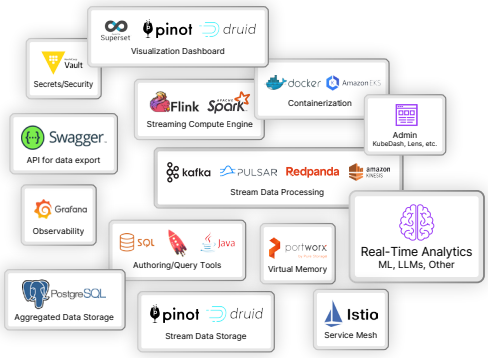
Cogynt™

Unified Real-Time Platform

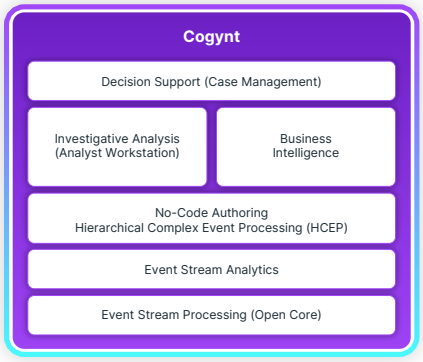
Summary

Government and enterprise's adoption of big data and streaming technologies demand a new category of continuous intelligence (CI) applications to inform critical decision making. These CI applications fuel today's situational awareness, operational efficiency, and risk management initiatives. Many organizations invest in a multifaceted set of event streaming, real-time analytics, decision support, and business process integration technologies that are the foundation of a unified real-time platform (URP) architecture. Attempting to build CI applications with a fragmented set of URP tools leads to significant development, resource, and performance costs. Organizations need a scalable, integrated platform that simplifies URP management and expedites CI application delivery. This approach increases development efficiency, fortifies predictive analysis, and optimizes analyst, data scientist, and engineering resources.

Piecemeal Event-Driven Analytics Architecture



Cogynt Unified Real-Time Platform



Piecemeal architecture versus Cogynt Unified Real-Time Platform

Benefits

- Gain real-time, predictive and actionable intelligence regardless of data volume and diversity, pattern complexity, or scale
- Accelerate continuous intelligence application delivery with increased development and operational efficiencies
- Make faster, informed decisions with greater consistency, accuracy, and confidence
- Detect and respond to high-consequence threats (and opportunities) proactively and effectively
- Optimize SME, business analyst, and data scientist expertise and utilization
- Streamline tailored intelligence usage across teams and decision makers with assured oversight and auditability
- Enrich the operational intelligence of external applications
- Increase analyst investigative analysis and case workflow efficiency

Challenge

URP infrastructure and skilled engineers are the cornerstone for modern CI application development. However, an in-house method using piecemeal toolsets to support URP creates ongoing complexity, efficiency, and operational challenges. As engineers and data scientists develop and extend CI applications, expanding data sources, creating and improving analytic models, and integrating findings into existing workflows becomes burdensome to enhance and maintain. Worse, the process underutilizes analysts, the subject matter experts (SMEs) that are requesting CI applications for their stakeholders. They are not directly working within the modeling environment. This disconnect between engineers, data scientists, and analysts undermines the development of accurate models, prolongs application delivery, and increases costs.

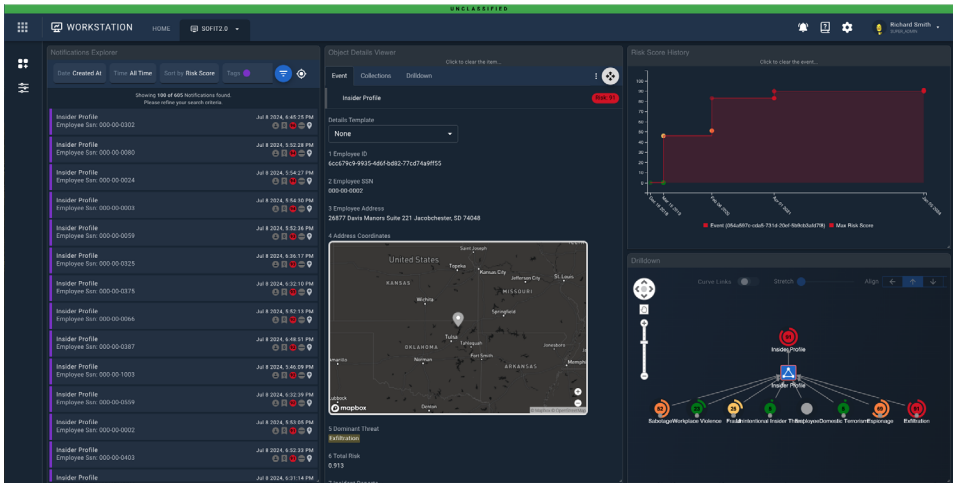
Solution

Cogynt is a unified real-time platform that offers the most comprehensive, versatile, and simplified means to deliver continuous intelligence for decision support automation. The platform integrates event streaming, advanced analytics, no-code modeling, and intelligence augmentation. Applying an expert AI approach, Cogynt enables analysts and data scientists to directly design models, examine results with full traceability, and optimize outcomes. This streamlines CI application delivery while reducing release cycles, engineering overhead, and expenditure. As a result, organizations can transform massive, diverse data into predictive and actionable decision insight — in real-time and at enterprise scale.

Accelerate Your Competitive Edge

Cognyt, powered by event streaming and behavioral analytics technology, enables organizations to gain high-confidence predictive insights required to make rapid, informed decisions — continuous intelligence that accelerates an organization's competitive edge. The URP simplifies deployment, creating, publishing and refining models, ingesting data sources, and processing event streams. It automates visualization, investigation, workflow, and integration processes.

Analysts and data scientists use Cognyt's no-code authoring environment to easily map data sources and create models with full data lineage. Cognyt makes even the most difficult real-time analysis possible with its patented Hierarchical Complex Event Processing (HCEP) technology. The HCEP engine works seamlessly to detect and track complicated patterns of behavior — even if occurring infrequently or evolving over long periods of time. The system publishes resulting insights to external systems and provides contextual notifications to analysts within Cognyt's Analyst Workstation.



Analyst Workstation: customizable, interactive dashboards with analysis widgets

Using Analyst Workstation, analysts can visualize, examine, and review findings and deliver timely, high quality CI products to their stakeholders. Extensive case management functions that boost analyst productivity include workflow customization, case assignment, delegation, assessment, annotation, collaboration, and reporting. A built-in Superset Tool provides BI dashboard features that facilitate immediate performance and management oversight.

Achieve Decision Advantage

With almost two decades of research and development behind it, Cognyt stands as the unified real-time platform of choice for government and commercial organizations to gain continuous intelligence and achieve decision advantage.

Highlight Capabilities

Unified Real-Time Platform
Offering a complete URP, Cognyt integrates and augments event streaming, advanced analytics, investigation, visualization, and case workflow. Simplified model authoring and production expedites CI delivery, without requiring Flink, Kafka, and Pinot expertise, and reduces engineering overhead.

No-code Model Authoring
An intuitive, self-documenting model authoring environment enables SMEs and analysts to easily define data schema mapping, event patterns, and computation logic used by HCEP.

Advanced Behavioral Analytics
Cognyt's patented HCEP provides an easier, yet sophisticated method to analyze multifaceted patterns within diverse, high-volume event streams in real time to determine insights.

Applied Expert AI and Gen AI
Cognyt's expert AI approach enables SME expertise to become machine-speed analytics to yield insights with full data lineage. Forthcoming AI LLM use will enhance source data assessment, authoring, and workflow experiences.

Workstation
Seamlessly disseminate intelligence into existing workflows with customizable dashboards, widget tools, and BI data visualization, reporting, findings enrichment, and collaboration.

Flexible Data Ingestion
Easily define streamed or batch ingestion of structured, unstructured, database, and AI data sources.

Business Process Integration
Integrates with other applications and artificial intelligence systems to ingest data or send actionable intelligence.

Proven and Scalable
Uses Apache Software Foundation technology and is cloud-scalable to meet high-volume data ingestion and complex analytic processing demands.

COGILITY

Visit **www.cogility.com** to obtain more information and request an expert demo.

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