

For many organizations, the data to successfully detect and prevent fraud already exists. Unfortunately, it is typically distributed across various systems, locations, and departments. Furthermore, clerical errors, linguistic differences, and purposeful misrepresentations by fraudulent entities make it difficult for typical screening and investigative tools to find, match, and link similar entities within the data.

Based on expertise developed in working with the Department of Homeland Security, and refined in collaboration with strategic corporate partners, the Identity Resolution Engine™ (IRE) enables corporations to detect and prevent fraud by finding “who’s who” and “who knows whom” within their enterprise data.

The IRE contains a seamlessly integrated set of components that enable corporations to perform real-time (or batch) federated searches across their enterprise data to find, match, and link similar entities and uncover hidden relationships between people, places, and things. Its automated decisioning engine leverages user-defined, domain-specific rules to automate business processes as transactions occur. The IRE is built on an open, service-oriented architecture (SOA) that can be operated in standalone mode or integrated with other business applications due to its configurable business process workflow.

IRE Components

Identity Resolution

- Finds, matches, and links similar individuals, locations, and other entities with patented similarity search technology that far exceeds exact match, pattern-based matching, and soundex matching solutions
- Ensures that misspellings or intentional data manipulations are detected to reduce false negatives
- Searches across multiple attributes to disregard irrelevant matches and reduce false positives that waste valuable investigative resource time

Relationship Link Analysis

- Detects similarities between seemingly unrelated entities
- Includes an intuitive web interface to visualize and drill down into entity networks

Anonymous Resolution

- Finds, matches, and links similar entities and relationships without exposing sensitive data values

Federated Query

- Searches on data where it lives and in its native format without requiring normalization or building an intermediate data warehouse

Decisioning Engine

- User-defined workflow engine that automates business processes as transactions occur



KEY BENEFITS

“Who’s Who?” – Accurately Find, Match, and Link Similar People, Places, and Things within Disparate Data

- Detect aliases whether they are created intentionally or through human error.
- Identify irregularities in user input (data entry anomalies).
- Protect individual privacy concerns through anonymous resolution.

“Who Knows Whom?” – Uncover Hidden and Non-obvious Relationships within Enterprise Data

- Uncover previously unknown relationships and conduct more effective investigations with an intuitive visualization interface.
- Associate similar yet not exact relationships caused by attempts to deceive and data entry errors.
- Perform deep analysis of expansive networks with ability to visualize relationships with up to four degrees of separation.

Federated Query – Access Disparate Datasets across the Organization in Real Time or in Batch Mode

- Access all data in any format, without building yet another data warehouse.
- Scalable solution with customers performing millions of queries on over 100 million rows across dozens of datasets.

Flexible and Fast Integration

- Pre-built templates for the Banking, Insurance, Government, and Retail Industries.
- SOA architecture interfaces with third party analytics and data sources.
- Integration adapters leverage many common 3rd party data sources.

Representative Uses

Insider Fraud and Collusion

- Investigate common employee fraud problems, such as policy violations, embezzlement, theft of customer or bank assets, and theft of customer data

Risk and Compliance Screening

- Perform accurate compliance screening (OFAC, PEP, terrorist, etc) across multiple sets of internal and external watch lists, resulting in fewer false positives

Organized Crime Detection

- Detect organized criminal activities such as bust-out fraud, insider fraud, and claims fraud by identifying and linking non-obvious, shared attributes between people, places, and things

Federated Investigation

- Find similar entities of known fraudsters across enterprise data

Contact Infoglide

To learn more about IRE and other Infoglide products and services:

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