

## Curb fraud, waste, and abuse by detecting connections and visualizing relationships using Graph technology



With \$3.5 trillion in annual outlays, federal agencies fund a broad array of programs, some of which are vulnerable to fraud, waste, and abuse. Perpetrators prosper by distancing their identities, activities, and transactions from monitors and victims. Prime Dimensions' utilizes Neo4j Graph database technology to trace fraudsters' connections to reduce loss exposure and make payment operations more transparent and efficient.

- ✓ Proven ROI in government & commercial programs where graph deployment costs less and returns value faster than hiring and training additional monitoring personnel
- ✓ Intuitive, reliable, durable, fast, and highly-available analytics platform
- ✓ Massively scalable, ideal for complex settings related to health, security, and enforcement

### Problem

Despite recent improvements, in 2013 the Government Accountability Office identified 30 high risk areas where exposure to loss is \$1 billion or more.

Pervasive program weaknesses challenge agencies to curb fraud and comply with the provisions of federal improper payment laws. This is exacerbated by increasingly complex electronic relationships between employees, customers, contractors, and citizens, particularly the areas of Medicare and Medicaid payments; medical product safety; federal disability; protecting information systems and critical infrastructures; sharing terrorism-related information; and tax law enforcement.

### Solution

Agencies already have the data they need to improve fraud detection and prevention; the challenge is tracing the fraudster's electronic footprints quickly enough to apprehend them quickly. Effective pattern recognition and causal analysis is the key to revealing fraud, waste and abuse.

Our Collective Intelligence Framework can trace fraudsters' electronic footprints in less than a second. Our native graph database processing and storage engine yields performance in complex causal and relationship analysis that is 1000 times faster than relational databases. Our agile approach is finely tuned for local pattern recognition and visualization, making fraud identification easier for technicians, analysts, and developers.

- Already stored transactions can infer relationships and detect potential fraud patterns
- Data about organizational affiliation, personal, professional, family relationship, and address history, etc., further hone detection abilities
- Connect transactions with known fraudsters, or link a pattern of transactions with patterns that are known to be fraudulent

### Learn More

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