USE CASE

Security: Real-time Communication Analysis

Value: Efficiently monitor communication activities in-time to avert future crimes and solve cases.

PROBLEM
Law enforcement agencies are tasked not only with finding criminals, but spotting potential crimes before they happen. Identifying connections between people of interest can aid police in solving cases, monitoring suspect activity and protecting citizens. One way to discover these relationships is by using telephone records, credit card information and location data. However, in a society with a growing number of phone, mobile and social communication channels, and the vast number of people using them, that job is harder than ever.

SOLUTION
Objectivity’s InfiniteGraph makes it possible to detect valuable connections in massive amounts of data, even when there are large degrees of separation. The technology provides law enforcement agencies with an efficient way to search telephone Call Detail Records (CDRs), building a graph of calls to and from people of interest and expanding their list of suspects. Unlike traditional relational databases or “Big Data” log stores, InfiniteGraph enables fast navigational queries to identify relationships between people. The application can be easily extended to cover other methods of real-time communication such as SMS text messages, e-mails and social media.

INNOVATION:
Real-time capabilities across distributed environments to link suspected individuals to known criminal associates and prevent criminal activity.

CHALLENGE:
Create real-time actionable intelligence from data across distributed databases to offer in-time, value-added services to customers.

SOLUTION:
InfiniteGraph enabled law enforcement agencies with a single federated view of distributed, streaming, data to allow real-time parallel query and search functions to discover relationship patterns identifying criminal associates and activities.
About Objectivity, Inc.

Since 1988 Objectivity, Inc. has been the Enterprise NoSQL leader, helping customers harness the power of Big Data.

Our leading edge technologies: InfiniteGraph, The Distributed Graph Database™ and Objectivity/DB, a distributed and scalable object management database, enable organizations to discover hidden relationships for improved Big Data analytics and develop applications with significant time-to-market advantages and technical cost savings, achieving greater return on data related investments.

Objectivity, Inc. is committed to our customers’ success, with representatives worldwide. Our clients include: AWD Financial, CUNA Mutual, Draeger Medical, Ericsson, McKesson, IPL, Siemens and the US Department of Defense.