

Mitigate risk while creating opportunity

Finance Does Hadoop



Any financial services business cares about maximizing its opportunities and minimizing its risk potential—not just regulatory risk, but internal risk as well. A few rogue individuals can cause extraordinary losses if their malicious activities go unnoticed. Firms that store and process huge amounts of data in Apache[™] Hadoop[®] have better insight into both their risks and opportunities. Deeper analysis and insight can improve operational margins and protect against one-time events that might cause catastrophic losses.

Applications in financial services include:

Improve Underwriting Efficiency for Usage-Based Insurance

Advances in GPS and telemetry technologies have reduced the cost of capturing driving data for insurance companies issuing Pay As You Drive (PAYD) policies, but for one company, storing that streaming vehicle data was cost prohibitive, so it only retained 25% of available data. After adopting Hortonworks Data Platform (HDP), the company now retains 100% of policyholders' PAYD geolocation data, and processes that quadrupled data stream in three days or less. This has enabled the company to align premiums with empirical risk more accurately, and in turn reward safer drivers with more affordable policies.

Screen New Account Applications for Risk

Every day, large retail banks take thousands of applications for new checking and savings accounts, often times overriding do-not-open recommendations for applicants with poor banking histories.

Many of these high-risk accounts overdraw and charge-off due to mismanagement or fraud, costing banks millions of dollars in losses. Apache Hadoop can store and analyze multiple data streams and help regional bank managers control new account risk in their branches. They can match banker decisions with risk information, and help control risk by sanctioning individuals, updating policies, and identifying patterns of fraud.

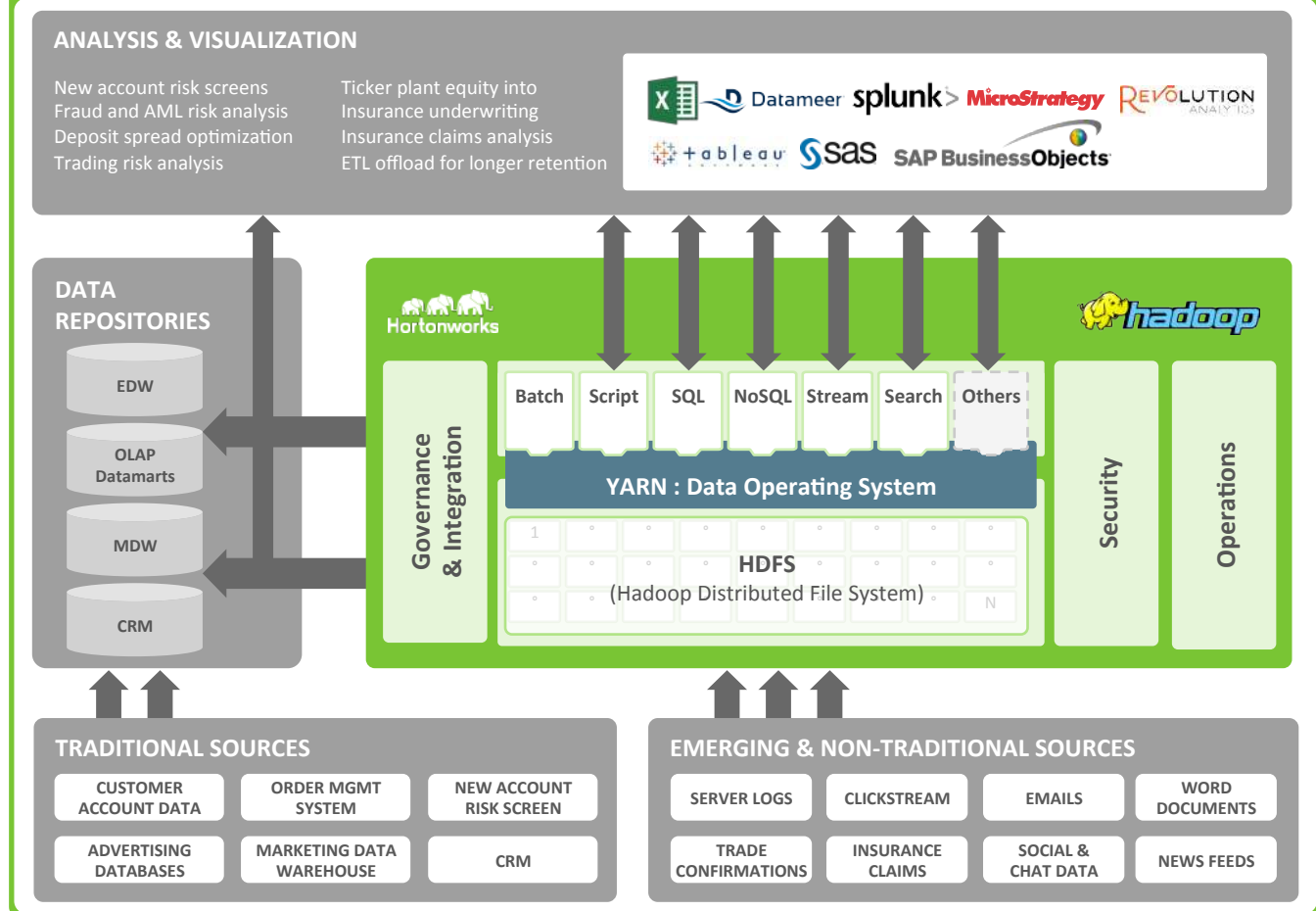
Maintain Sub-Second SLAs with a Hadoop “Ticker Plant”

Ticker plants collect and process massive data streams, displaying prices for traders and feeding computerized trading systems fast enough to capture opportunities in seconds. This is useful for making real-time decisions, and years of historical market data can also be stored for long-term analysis of market trends.

One Hortonworks customer rearchitected its ticker plant with HDP as its cornerstone. Now, gigabytes of data flow in from thousands of server log feeds every day. This data is queried more than thirty thousand times per second, and Apache HBase enables super-fast queries that meet the client's SLA targets.

Hortonworks Data Platform 2.0

Hadoop for Finance



ApacheTM Hadoop[®]: Enterprise-class, Enterprise-ready

Apache Hadoop has evolved significantly to meet enterprise requirements, and now encompasses the functional areas that are foundational to any platform technology.

Data Management

Store and process vast quantities of data in a scale-out storage layer.

Data Access

Access and interact with your data in a wide variety of ways—spanning batch, interactive, and real-time use cases.

Data Governance and Integration

Quickly and easily load data, and manage according to policy.

Security

Address requirements of Authentication, Authorization, Accounting and Data Protection.

Operations

Provision, manage, monitor and operate Hadoop clusters at scale.

Hortonworks. We do Hadoop.

Hortonworks is a leading commercial vendor of Apache Hadoop, the open source platform for storing, managing and analyzing Big Data. Our distribution of Apache Hadoop, Hortonworks Data Platform, provides an open and stable foundation for enterprises and a growing ecosystem to build and deploy Big Data solutions.

Hortonworks is the trusted source for information on Hadoop, and together with the Apache community, Hortonworks is making Hadoop an enterprise data platform. Hortonworks provides unmatched technical support, training and certification programs for enterprises, systems integrators and technology vendors.

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