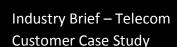# Accelerated Big Data Adoption: Telecom Provider Case Study

DiYOTTA

Telecom is one of the biggest consumer sectors that has a large number of subscribers in tens of millions who generate billions of transactions while using services including voice, data, messaging and broadband services. Detecting fraud from out of these billions of records is one of the biggest pain points for the Telecom Service Providers.

One of Diyotta's and Hortonworks' customer, a North American service provider had historically used traditional database systems to analyze these network transactions. However, the sheer volume of data, generated by this provider's myriad of data sources needed a scalable solution for data storage, high-volume data ingestion at high frequency, data processing and data provisioning from Hadoop.

The provider chose Hortonworks Data Platform (HDP) and Diyotta's DI Suite as an enterprise solution for Big Data to accelerate multiple Hadoop projects including fraud prevention. The joint solution helped the provider with data ingestion using customer feeds, heterogeneous data transformations across various source systems and provisioning data from Hadoop to external applications.

The provider was able to save over $1.4M by using Diyotta DI suite to migrate to Hadoop vs. a traditional migration to Hadoop as well as reduce operational costs by $500K.

Key Business Challenges Solved

Increased Productivity

The joint solution increased productivity by 5x. Diyotta provides an intuitive GUI and turns existing developers into Hadoop developers without requiring any special Hadoop skills

Accelerated ROI

Diyotta is a metadata driven solution and provides maximum reusability of all components, to maximize time-to-value. Diyotta and Hortonworks helped this provider deliver data to business users 6x faster than a traditional approach.

Reduced Complexity

Diyotta improves maintainability and reduces operational complexity due to graphical real-time monitoring & troubleshooting information. Diyotta also provides visibility into operational statistics.

Diyotta's and Hortonworks Differentiators

Fraud Detection

- Hortonworks Data Platform is being used to store and provision selective data sets to fraud applications. Diyotta provides a purpose-built solution for near real-time data ingestion and applies fraud business rules to filter fraud prone records and provision the external application.

Purpose-built solution for telecom providers

- Diyotta DI suite is a complete end-to-end software solution for modern data integration and allows developers and analysts to ingest, transform and provision data on HDP. Diyotta works with various components in the Hadoop ecosystem including Hive, HBase, HDFS and it abstracts away the complexity in implementation by not requiring any special Hadoop skills.
- Diyotta DI suite provides accelerators for data collection protocols – CDR and IPDR. Diyotta ID suite handles near real-time orchestration to ingest high volumes (5-6 Billion/4-5 TB) of CDR and IPDR feeds.

Future Proofed

- Diyotta helped avoid future cost/rework for this telecom provider. Diyotta DI Suite is architected so that changing the processing engine does not impact the underlying code. No additional cost or re-work is needed for a change in technology such as a move from MapReduce to Tez or Spark.

Consulting and Integration Services

- For this North American telecom provider, Diyotta built the solution architecture, designed and implemented the fraud project on the Hadoop Data Lake. Diyotta has in-house expertise to provide strategic services on Hadoop initiatives.

Diyotta is a Hortonworks Certified Partner

From cost savings scenarios to business process optimization and new revenue generating use cases, Hortonworks ISVs and systems integrator partners play a crucial role in facilitating the discovery, solution development and the on-going operations of Hortonworks Data Platform implementations.

Hortonworks. We do Hadoop.

Hortonworks is a leading commercial vendor of Apache Hadoop, the open source platform for storing, managing and analyzing Big Data. Hortonworks Data Platform, our distribution of Apache Hadoop, 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.

For additional questions, contact:

- Diyotta
  www.diyotta.com
  (704) 817-4646
- Hortonworks
  www.hortonworks.com
  (855) 8-HORTON