Accelerate Real Time Data Ingest into Hadoop

with Attunity Replicate and Hortonworks DataFlow (HDF)
Attunity – Corporate Overview

Data Integration & Big Data Management Software

- Accelerate data delivery and availability
- Automate data readiness for analytics
- Optimize data management with intelligence

Solutions for:
- Hadoop & Big Data
- Databases & Data Warehouses
- On premise & in the Cloud

Overview:
- 2000 customers in 65 countries
- 250 people and growing
- NASDAQ traded (ATTU)

Global Offices
Attunity Product Suite
Data Integration & Big Data Management Software

Move data to any platform

Automate ETL/EDW

Optimize performance and cost

Attunity Replicate

Attunity Compose

Attunity Visibility

Universal Data Availability

Data Warehouse Automation

Data Usage Profiling & Analytics

Hadoop

RDBMS

EDW

Files

SAP

Mainframe

On Premises / Cloud
The Connected Data Architecture & Attunity

Attunity Replicate for HDP and HDF

Accelerate time-to-insights by delivering solutions faster, with fresher data, from many sources
- Automated data ingest
- Incremental data ingest (CDC)
- Broad support for many sources
Zero-footprint Architecture

- Lower impact on IT
  - No software agents on sources and targets for mainstream databases
  - Replicate data from 100’s of source systems with easy configuration
  - No software upgrades required at each database source or target

- Lower impact on IT
  - Log based
  - Source specific optimization
Data Lake Ingests with Attunity Replicate: On-Prem & Clouds

- **Transfer**
  - In-Memory
  - File Channel

- **Filter**
- **Transform**

**Batches**:
- CDC
- Batch
- Incremental
- Batch

**Persistent Store**

**On-prem**
- Hadoop
- RDBMS
- Data Warehouse
- Files
- Mainframe

**Cloud**
- Hadoop
- RDBMS
- Data Warehouse
- Kafka
- Files

**Cloud Platforms**
- Amazon Web Services
- Microsoft Azure
- Google Cloud Platform
Enterprise-class CDC for Data At Rest and Data In Motion

Attunity Replicate – Change Processing

In Memory and File Optimized Data Transport

Data Sources

Transactional CDC

Batch CDC

Data Warehouse Ingest-Merge

Message Encoded CDC

Data Sources:
- SQL Server
- Teradata
- Oracle
- IBM

Many Databases and Data Warehouses

Ingest-Merge

SQL

Transaction History

Batch History

Data Streaming

Message Encoding

HDF

LOG ANALYTICS PLATFORM
# Kafka and Real-time Streaming

<table>
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<th>Attunity - Replicate</th>
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| • Easy ingest + CDC  
• Real-time processing  
• Real-time monitoring  
• Real-time Hadoop  
• Scalable to 1000’s applications  
• One publisher – multiple Consumers | • Direct integration using Kafka APIs  
• In-memory optimized data streaming  
• Support for multi-topic and multi-partitioned data publication  
• Full load and CDC  
• Integrated management and monitoring via GUI |
Demo: Data Streaming into Kafka ➔ HDF ➔ HDP

In memory optimised metadata management and data transport

Transaction logs ➔ CDC ➔ Data Streaming ➔ kafka Message broker ➔ HDF ➔ HDP

Example DB:

- CDC
- Bulk Load
- Data Streaming: MSG n 2 1
- kafka Message broker

LOG ANALYTICS PLATFORM
Demo: Data Streaming into Kafka

HDF → HDP
Heterogeneous – Broad support for sources and targets

**RDBMS**
- Oracle
- SQL Server
- DB2 LUW
- DB2 iSeries
- DB2 z/OS
- MySQL
- Sybase ASE
- Informix

**Data Warehouse**
- Exadata
- Teradata
- Netezza
- Vertica
- Actian Vector
- Actian Matrix

**Hadoop**
- Hortonworks
- Cloudera
- MapR
- Pivotal

**Cloud**
- AWS RDS
- Salesforce

**Legacy**
- IMS/DB
- SQL M/P
- Enscribe
- RMS
- VSAM

**RDBMS**
- Oracle
- SQL Server
- DB2 LUW
- MySQL
- PostgreSQL
- Sybase ASE
- Informix

**Data Warehouse**
- Exadata
- Teradata
- Netezza
- Vertica
- Pivotal DB
  (Greenplum)
- Pivotal HAWQ
- Actian Vector
- Actian Matrix
- Sybase IQ

**Hadoop**
- Hortonworks
- Cloudera
- MapR
- Pivotal

**Cloud**
- AWS RDS/Redshift/EC2
- Google Cloud SQL
- Google Cloud Dataproc
- Azure SQL Data Warehouse
- Azure SQL Database

**NoSQL**
- MongoDB

**Message Broker**
- Kafka
Learn more! Go to:
Attunity.com/hortonworks or
Hortonworks.com/partner/Attunity/

Try Attunity Replicate out for free! Go to:
Attunity.com/ReplicateExpress