

bryteflow[®]

For **ORACLE**[®]



BRYTEFLOW TO LIBERATE YOUR ORACLE DATA

KEY FEATURES

- Zero source impact
- Log based change capture
- Real time data replication
- Click-to-extract interface
- Automated outage recovery
- Data masking and encryption
- Flexible deployment options
- Historical data retention
- Automated data monitoring and reconciliation

BENEFITS

- Faster time to insight & action
- Low cost data storage
- Improved application performance
- Lower ETL footprint

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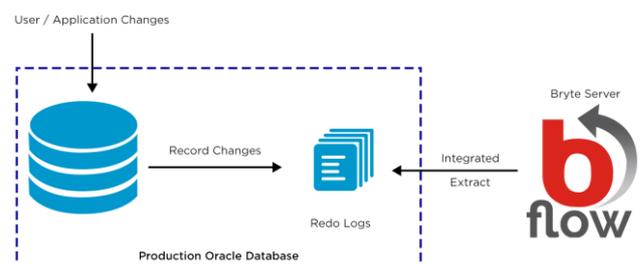
In the current hyper-competitive and customer-centric business environment, organizations are expected to intimately know and anticipate their customer preferences. Little is left to chance as organizations seek to apply data science, machine learning and AI to their data assets.

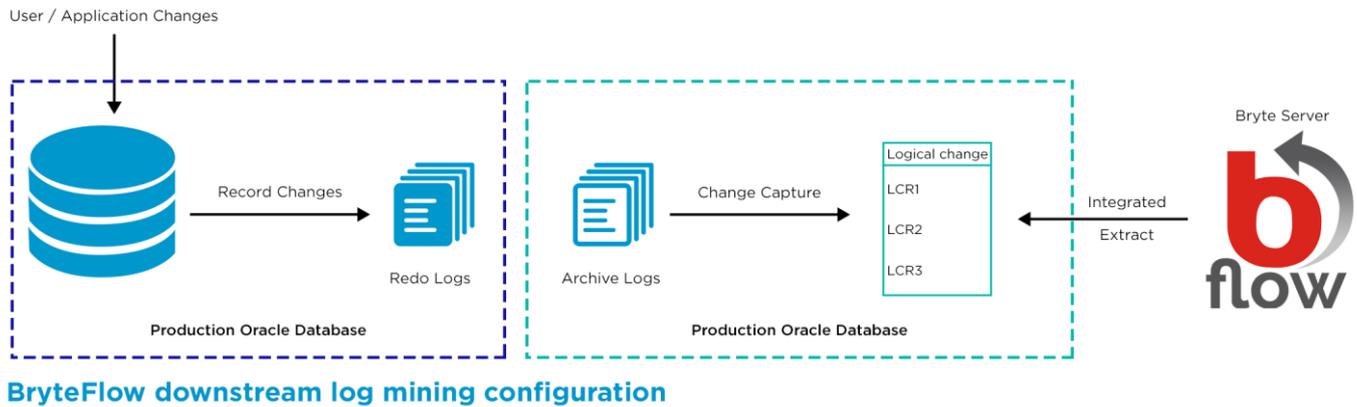
With some of the planet's most important applications running on them, Oracle database environments contain large amounts of valuable enterprise and customer data. However, the true value in this data is rarely uncovered due to issues with application impact, cost, scale and underlying data complexities.

BryteFlow makes it easy to extract, sync and start analyzing Oracle data by combining industry leading log-based change data capture (CDC) technologies with native support and integrations for AWS Big Data infrastructure.

Zero Impact at Source with Log Based Change Data Capture

BryteFlow eliminates the need for costly database queries, triggers or extensive logging to extract data. It syncs data by analyzing Oracle Database Logs under a minimal supplemental logging configuration and does not require any additional agents or software to be installed. The software can be configured to read redo logs directly from a production database, or operate under a downstream log mining configuration.





Built on industry standards

BryteFlow is built on Industry Standard Oracle Integrated Capture Methodology. It is futureproof and compatible with upgrades to Oracle v12c or Oracle on Amazon RDS.

Automatic catch-up from network dropout

In the event of a network error or outage, BryteFlow flags its last successful load and automatically resumes operations once connectivity is re-established. The software also features a high performance catchup mode, designed to rapidly bring systems back into sync.

Continuous data sync

Continuous log scans and incremental extraction remove the need for resource-intensive batch extraction which frees up valuable processing time and limits the risk of large bulk data uploading failures. It also ensures that analysts and data scientists have access to current and up to date data.

Click-to-extract

BryteFlow's click-based user interface delivers a codeless development environment to configure and monitor data streams – eliminating time spent managing complex ETL jobs.

Parallel log mining

For high volume transactional systems, BryteFlow parallel log mining enables data from multiple Oracle log files to be analyzed and loaded simultaneously - providing up to 4x faster performance.

Source switching

To eliminate high source system impact during initial full table loads, users can leverage Bryte's source switch functionality. This enables initial extracts to be completed using backup or standby databases. Once the initial extract has been completed, BryteFlow switches to the system logs for new data updates.

Historical data retention

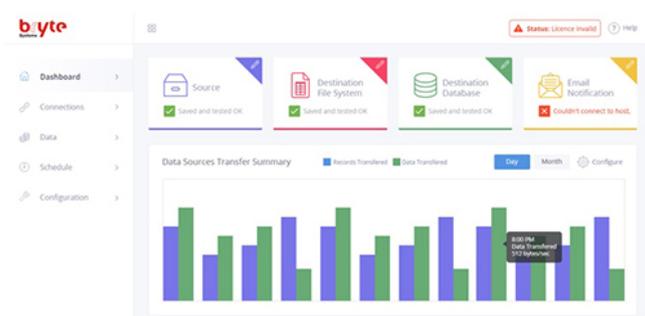
BryteFlow provides out-of-the-box options to maintain full record history by using an industry standard type-2 approach. This tracks historical data by creating multiple records for a given natural key in the dimensional tables with separate surrogate keys and version numbers.

Masking and Encryption

BryteFlow enforces data encryption in transit and rest, and enables selected fields to be excluded from Data Extraction processes.

Flexible deployment options

BryteFlow software features flexible deployment options. It can be deployed on EC2 instance or on premise behind the organization's firewall / proxies.



Monitoring and Alerting

BryteFlow features an advanced data monitoring console which performs continuous data health checks and reconciliations. Users are automatically alerted and notified in the event of any system errors.

Advanced analytics ready

BryteFlow can be configured with custom business logic to provide cleansed, modelled and analytics ready data.

It also features out of the box integrations with Hadoop / Spark on Amazon EMR, AI with Amazon Machine Learning and powerful Data Warehousing with Amazon Redshift. With BryteFlow, data scientists can access and analyze data on-demand, using any technology or tool of their preference.

Partitioning for large tables

BryteFlow is built to effectively extract large application tables using partitioning algorithms. This process breaks up large tables into multiple sections for an effective multi-part upload.

Low cost data storage

BryteFlow is designed to land data into low cost Amazon Web Services Infrastructure on either Amazon S3 or Amazon Redshift. With Amazon S3 Object Storage, clients can store their Oracle data for just 1 – 3 cents per GB per month.

Built-in AWS Best Practices & Optimizations

BryteFlow automates all core AWS best practices for data ingestion, storage and access. This includes Amazon KMS Encryption, Amazon S3 File Management / Naming Conventions, Sort and Dist Keys, S3FS integrations with EMR, Multi-part and parallel data uploads.

Configuration file for versioning and macro changes

BryteFlow maintains an XML file which captures all configuration changes. With this file, power users can speed up the configuration by copying-and-pasting macro changes.

Metadata Management

With Bryteflow, users can leverage a Google-like interface to search and explore data sets. Bryteflow automatically tags key data attributes and structures into an AWS Data catalogue that can be accessed directly by end users or third party tools / applications.

ABOUT BRYTE

Bryte provides an out-of-the-box software driven approach to help enterprises build high performance cloud Data Lakes and Analytics Environments. Our company mission is to make Data Access, Innovation and Analytics more pervasive, cost effective and easier than ever before by blending together the latest in innovative cloud, business intelligence and data liberation technologies. We are recognized by our clients for world class expertise with Amazon Web Services, Real Time Data Lakes and Software Driven Automation.