

DATA INTEGRATION

CUSTOMER STORY

Setting a benchmark for security industry

Qlik Replicate® gathers diverse data sources into
a single view to inform investment strategies



CUSTOMER STORY

“Qlik Data Integration is critical to the success of our data strategy. We can extract massive amounts of data from heterogeneous databases to our Big Data platform with just a few simple settings. It’s a real efficiency boost.”

Gao Sen, Big Data Operations & Maintenance Manager, CSC Financial Co., Ltd.

Need for real-time status view

CSC Financial Co., Ltd (China Securities) is a major national securities company providing high-quality financial services to government, corporate, institutional and individual investors. Having earned an excellent reputation, it was awarded the highest Class AAA rating by the China Securities Regulatory Commission and has retained that rating for 12 years.

The company needed to better understand asset movements in real-time to maximize investment strategies. It also wanted to provide its clients with a real-time display that would clearly show the status of their portfolio from the China Securities application and other investment channels.

“The traditional data replication solution that we were using before was time-consuming, cumbersome, error-prone and replicated data very slowly, making it completely impossible to display client assets in real-time. That’s why we began to look for data replication solutions that were both automated and efficient,” says Gao Sen, China Securities’ Big Data Operations & Maintenance Manager.

China Securities needed to copy data from many sources and unify it to present clients with a clear visualization. The company had to deal with large data volumes and many databases which required up to 18 replication tasks. Frequent system upgrades also meant that replication environments had to be constantly rebuilt and replicating from heterogeneous databases was a cumbersome operation.

Solution Overview

Customer Name

CSC Financial Co., Ltd (China Securities)

Industry

Financial Services

Geography

Beijing, China

Function

Finance, IT

Business Value Driver

Reimagined Processes

Challenges

- Need to provide a single view to inform investment strategies
- Lack of unified and intuitive monitoring
- Frequent reconstruction of replication environment due to system upgrade

Solution

China Securities has used Qlik Replicate to build an automated data replication solution.

Results

- Provides a unified task operation and monitoring interface which allows staff to see immediately whether or not a task has been successfully built
- Automates configuration and use processes to achieve zero manual input, increasing efficiency and reducing errors

Real-time data synchronization

To solve its problems, the company formed a cooperative venture with Qlik and Shanghai DingKui Information Technology (DingKui) using Qlik Replicate's real-time data synchronization solution.

"After evaluating the options, we felt that Qlik Replicate was the ideal solution for our data replication problems," adds Sen.

The resulting solution combines the advantages of Qlik Replicate with DingKui's industry knowledge. It allows China Securities to collate the data rapidly and automatically from multiple systems such as gold, OTC trading, stock options and margin trading. The data is replicated to Apache Kafka stream processing platform and then aggregated on a Spark Big Data platform. The unified analysis is carried out through a Redis in-memory database and data is available for real-time client asset analysis.

"We are particularly impressed by the maturity of Qlik Replicate and its ability to execute highly-automated processes, reducing the time needed to replicate data en masse down to sub-seconds. The process requires zero human input and that's been key in creating the functionality to display assets in real-time," says Sen. "Qlik has helped us to increase the speed at which we can display real-time client asset data to the sub-second level, making us one of the very few securities companies able to achieve this standard and setting a benchmark for the industry."

"In the future, we will seek further opportunities to work together with Qlik and continue our in-depth exploration of the value of Big Data."

Sub-second extraction of heterogeneous data

Implementing Qlik Replicate has allowed China Securities to create a unified and efficient data replication, aggregation, processing and display process which is able to aggregate data from multiple business systems to meet client requirements for real-time viewing. It includes a unified task operation and monitoring interface which allows users to see immediately whether a task has been successfully built and a monitoring API for status and accuracy checks. Configuration and use processes can be completely automated and there are automatic warnings if replication errors occur.

"Unlike traditional solutions, Qlik Replicate is not limited to replication tasks between a small number of databases, but extends its data replication capabilities to almost all common data platforms," concludes Sen. "In addition, Qlik Replicate also allows automation of the data replication process.

"We can extract massive amounts of data from heterogeneous databases to the Big Data platform with a few simple settings which greatly simplifies our data replication process. The successful application of Qlik Replicate is incredibly significant to our data strategy."

The keys to success



Sub-second replication time from hourly, increased data analysis and display efficiency



Automated data replication simplifies and improves the efficiency of the data integration process

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About Qlik

Qlik's vision is a data-literate world, where everyone can use data and analytics to improve decision-making and solve their most challenging problems. Our cloud-based Qlik Active Intelligence Platform delivers end-to-end, real-time data integration and analytics cloud solutions to close the gaps between data, insights and action. By transforming data into Active Intelligence, businesses can drive better decisions, improve revenue and profitability, and optimize customer relationships. Qlik does business in more than 100 countries and serves over 38,000 customers around the world.

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