

1 Cube for 8 Years of Detailed Data with a Full Migration from Cognos® to Kyligence®

Case Study

A global Fortune 500 life-insurance company modernized the data and reporting platform for its asset management division. Developed over 15 years ago, the existing platform was comprised of both legacy technologies (mainframes, DB2) and newer, distributed technologies (Microsoft SQL Server, .NET). Their IT teams maintained about fifty system-generated reports from Cognos PowerPlay, and business users leveraged Cognos Cubes to provide summary reports, roll-up data, and self-service reports.

Challenges

There are many limitations for analysis and reporting with traditional OLAP technologies such as Cognos. These challenges include the following:

- The cube could only load a maximum of 2 years of data, with data aggregated by weeks instead of days
- Dimensions had to be rolled up to avoid volume blow-outs
- Each cube could only contain a subset of data in one category, and different categories could not be analyzed together
- High cardinality dimensions could not be loaded
- Queries that combine multiple dimensions resulted in delays of several minutes, or never completed

Solution

The new platform was completely redesigned, architected to utilize big data technology, eliminating Cognos cubes and other legacy tools. With Kyligence Enterprise, they now connect their BI applications to the underlying data lake on Hadoop, enabling data analysis that was previously impossible. Their challenges with reporting and visualization were solved in the following ways:

Challenges

- Data volume limitations of Cognos cubes
- Lacking support for high-cardinality dimensions
- Delays when combining or reporting on data

Kyligence Enterprise

- No Size Limits for Cubes
- Hundreds of Dimensions
- Detailed Pushdown Queries
- Hundreds of Metrics
- Granular Access Control
- Scalable Architecture
- No Coding Required

Results

Reduced IT Complexity

Only one cube is needed for 8 years of data, with 10+ dimension tables, including the high-cardinality tables that were previously excluded.

Increased Analysis Flexibility

Users can drill down to daily transaction level in any time range, combining dimensions with drag-and-drop tools. Users can also connect to their favorite BI tools.

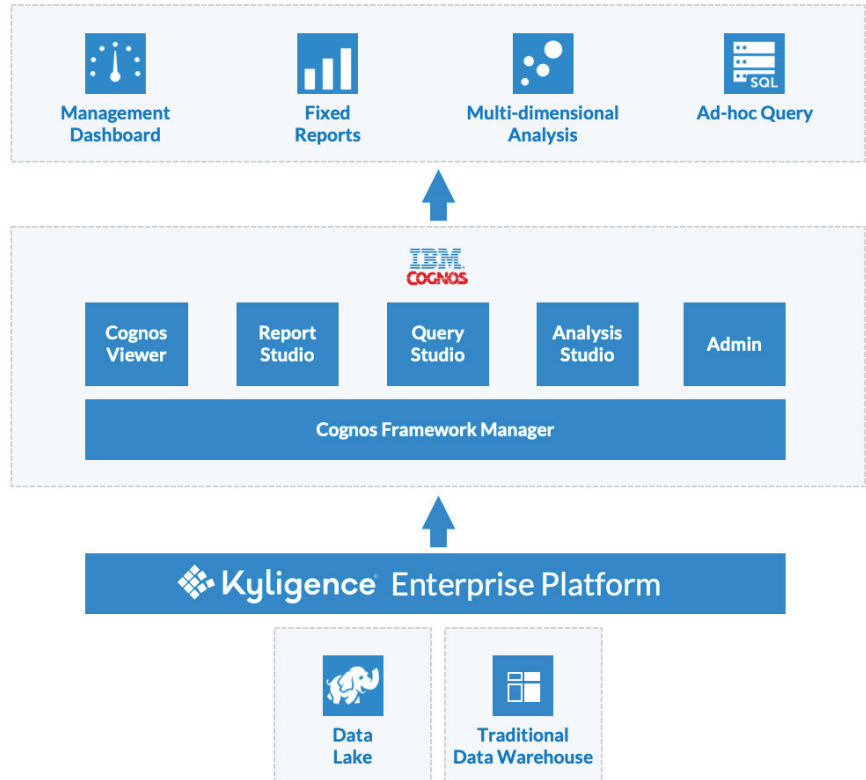
Accelerated Time-to-Insights

90% of the queries respond within seconds. The most frequently used queries respond in 3s.

Simplified Migration

Model and cube definitions are automatically synced to BI tools. Hierarchy and calculated measures definitions are easily migrated.

- One cube now enables analysis of 8 years of data, aggregated by day with over 10 dimension-tables
- Users can drill down to daily transactions using drag-and-drop
- Building the entire cube takes only 30 minutes
- Teams use their favorite BI tools, including Tableau and Excel



Next Steps

Schedule a short conversation with a member of our team to learn how Kyligence can address your specific challenges. Visit our website and fill out the request form at <https://kyligence.io>, or send an email to info@kyligence.io.

About Kyligence

Kyligence Inc. is the leading data intelligence company that focuses on big data analytics technology innovation, founded by early contributors to Apache Kylin. Kyligence is a next-generation big data analytics platform, using machine learning to automate both data preparation and insight discovery at massive scale. With extremely high performance for all data analysts and business users, Kyligence is being used by over 1,000 organizations around the globe, with many leading enterprises among them.

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