

CASE STUDY

Facilitating a Smooth Data Migration in the Higher Ed Space

CLIENT HIGHLIGHTS

Client: Anthology

Industry: Higher education technology/School software

Location: South Florida

Introduction

Anthology is a higher education technology provider with an international footprint. They specialize in business intelligence applications designed specifically for the academic landscape. Their products help higher education institutions incorporate data-driven management and facile communication capabilities into their ecosystems.

Although Anthology's products use current technology and data systems, quite often their clients do not. This creates significant delivery issues and diminishes the user experience for Anthology's customers. Anthology came to us for help solving these issues.

The Challenge

Anthology needed help migrating data from the existing platforms their clients were using to the new Anthology products they subscribed to or purchased.

Primary pain points included:

- The existing client systems did not have data connectors
- The existing systems lacked metadata
- The data sets had numerous data quality issues (e.g. truncated data, nulls, duplicate data, data type mismatch, misspells, etc.)
- Information was coming from numerous data silos
- Scalability, technological upgrades, and patching were difficult due to the outdated technology being used by Anthology's clients.



Our Solution

A successful data migration depends on data quality. As Anthology has data coming from multiple clients, it was imperative that all the data had a matching format. We approached this problem by designing ETL pipelines and frameworks using SSIS and Azure Data Factory. This allowed us to migrate data to a staging platform where data quality could be assessed, improved, and validated. It also provided an area where issues could be addressed **before** data went to the final destination site.

During the ETL process, we created various user-friendly reports to give the Anthology team an accurate view of the migration quality. This made the information easy for Anthology team to digest and facilitated fast sign-offs.

Once the migration was complete, we developed and implemented a standardized process for report generation, sharing, management, and collaboration. This helps the Anthology team identify bottlenecks and monitor day-to-day departmental business activities quickly and easily.

Our Approach



Engage & Discover

We worked with Anthology's stakeholders to understand their business requirements and priorities. We also conducted a discovery process to assess the existing technology architecture and data involved.



Plan & Prototype

We leveraged our internal think tank and engineering teams to produce recommendations based on current technologies and industry best practices. We used tried and tested ETL protocols and processes to create the most effective and efficient solution for Anthology.



Build & Deploy

We implemented ETL pipelines using **Azure Data Factory, SSIS, and SQL** to bring in client data from the higher ed organizations. We cleaned and transformed the data before loading it into Anthology's data ecosystem on **Azure**.



Manage, Scale & Improve

We created performance and operations dashboards and reports using Power BI to:

- Display the data extraction progress, verify data quality, and address any issues in the staging area
- Manage the production environment, including troubleshooting incoming issues, monitoring performance and implementing improvements. We also scaled the solution based on evolving workload.

The Results

Since implementing our solution, Anthology is experiencing effective data transfer from their clients with minimal latency or diminished data quality. We also delivered:

- A data migrated to the new system without any loss or integrity issues
- Established a metadata management process
- Created a scalable system
- Standardized reporting process
- Facilitated a data-driven culture
- Created more control over enterprise reporting
- Established process standardization, metric tracking, documentation and operation reviews

Why They Hired Us



Deep knowledge and thorough understanding of data migration, including intelligent data discovery, data mapping, data conversion, automated data validation, and conversion reporting as well as system development and application management.



Trust and proven expertise; we worked with numerous organizations in the higher ed sector and are familiar with the sector's needs and challenges.



Customer service; we listened, we collaborated, and we created a solution that met our client's needs.



Creative IT solutions tailored specifically to our client's situation, timeline, and budget.



Contact

Shadab Gaffoor

Sr. Director of Business Development

sgaffoor@ccsglobaltech.com

(858) 649-9842

[Connect with me on LinkedIn!](#)



ccsglobaltech.com

FOLLOW US!

