IBM UDMH Data Integration for Large Health System

Client Requirement

Client is one of the oldest and largest not-for-profit healthcare provider organizations in the US, with 1000+ sites and 50,000+ employees.

The client was using an IBM UDMH-based Enterprise Data Warehouse (EDW) for all its data management needs. The existing EDW was not equipped to integrate and manage non-clinical data from external sources (such as claims data). When the client merged with a health plan, it faced the challenge of integrating the medical and pharmacy claims data from the health plan into its existing EDW. It needed to integrate data from relational as well as flat file-based source systems. It also wanted to upgrade the current UDMH 8.x data model to UDMH 9.1 version, and ensure high data quality across all source systems.
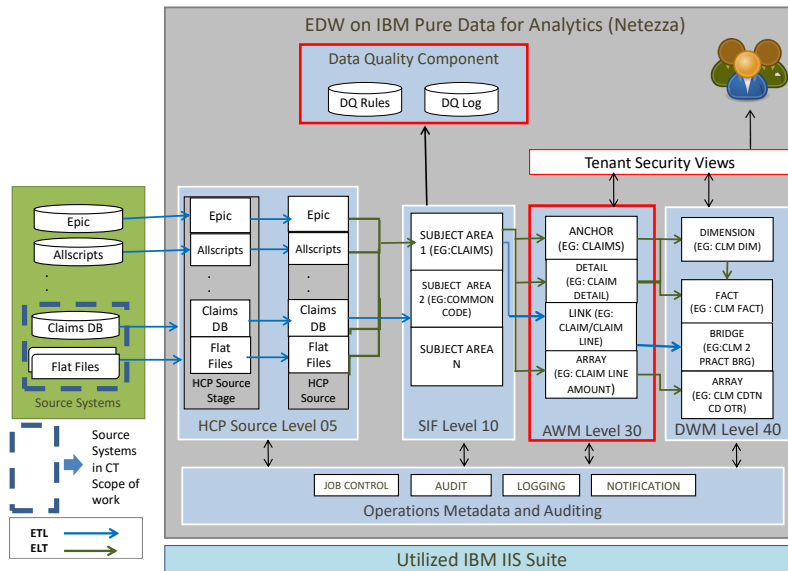
The client partnered with CitiusTech to address this integration challenge, given CitiusTech's expertise around IBM UDMH, payer-provider data integration and data quality management.

CitiusTech Solution

The CitiusTech team performed a detailed analysis of the client's source systems and the overall IT environment to understand the client's needs around data quality, key use cases and IT support needs. The team then developed a comprehensive implementation program that included:

- Integration of medical and pharmacy claims data into IBM UDMH in IBM PDA (Netezza) environment

- Data profiling of source systems and implementation of 100+ data quality rules to provide appropriate alerts

- Creation of a generic meta-data driven framework for Master tables ETL to expedite development and improve maintainability

CitiusTech worked closely with the client's business stakeholders to populate UDMH entities of relevant subject areas such as Agreement, Claims, Plan Member and others. It also set up a dedicated team of healthcare IT professionals in an onsite-offshore model to support the client.

CitiusTech

Solution Schematic

Value Delivered

By partnering with CitiusTech, the client was able to:

- Accelerate implementation by leverage CitiusTech's IBM technology stack expertise

- Enhance performance by 60% using ETL best practice

- Improve ROI as a result of the onsite-offshore team structure

About CitiusTech

CitiusTech is a specialist provider of healthcare technology services and solutions to healthcare technology companies, providers, payers and life sciences organizations. With over 4,000 professionals worldwide, CitiusTech enables healthcare organizations to drive clinical value chain excellence - across integration & interoperability, data management (EDW, Big Data), performance management (BI / analytics), predictive analytics & data science and digital engagement (mobile, IoT). CitiusTech helps customers accelerate innovation in healthcare through specialized solutions, platforms, proficiencies and accelerators. With cutting-edge technology, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare organizations worldwide.

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