

Case Study: CCDA Parser for Leading Blue Plan

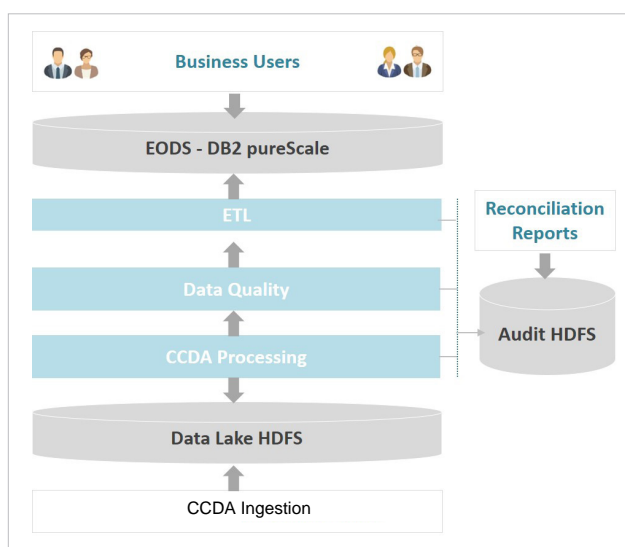
Client Requirements

Client is the largest regional Blue health plan on the east coast, providing quality healthcare services to more than 3.5 million members. Client wanted to ingest clinical data from multiple providers in the form of CCDA document and leverage the data for quality measure improvement and analytics. Client also wanted to parse these CCDA documents received from multiple vendors and persist the data in their enterprise operational data source (EODS) for downstream analytics.

Given its expertise in data management, data integration and interoperability, CitiusTech was selected to implement the CCDA process. Client also leveraged CitiusTech's big data platform, H-Scale for data ingestion, parsing and data quality check.

Solution Design and Development

- Leveraged H-Scale for CCDA parsing, ETL and improving data quality and transforming data into client data model
- Enhanced custom CCDA parser to parse required sections of CCDAs based on client's vendor implementations – this was in addition to CitiusTech's existing standard parser/ accelerator to parse standard sections of CCDAs
- Leveraged H-Scale Data Quality component to enrich the data based on defined data quality and standardization rules
- Utilized spark to extract clinical data and insert it into the Hadoop file system
- Built an audit component for checks and balances and an error logging component to record exceptions



CitiusTech Solution

Requirements Management

Client required CitiusTech to create a solution which would process CCDA documents, extract relevant clinical elements, associate them with the correct members and persist to HDFS for exploratory analytics. Further, the extracted data was required to be loaded into the client's operational data store.

Value Delivered

By partnering with CitiusTech, the client was able to:

- Leverage H-Scale platform to parse all CCDA sections as per 2012, 2015 implementation guide
- Integrate clinical with claims data for improved member profiling, quality measure compliance and risk scoring and provider performance management

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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 2,900 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, healthcare technology platforms, proficiencies and accelerators. With cutting-edge technology expertise, 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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