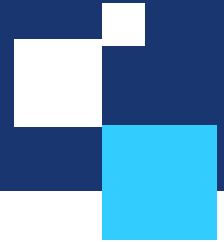# eCQM Rules Engine Development for ONC 2011/2014 CEHRT Compliance

Client Requirement

Client is a leader in Healthcare IT and provides healthcare products, services, support and initiatives in Life sciences, Imaging, Radiography, Diagnostic, Ultrasound etc.

Client's has multiple EHR suites catering to emergency services and imaging providers and wanted value delivered in terms of MU and PQRS compliance for its providers.
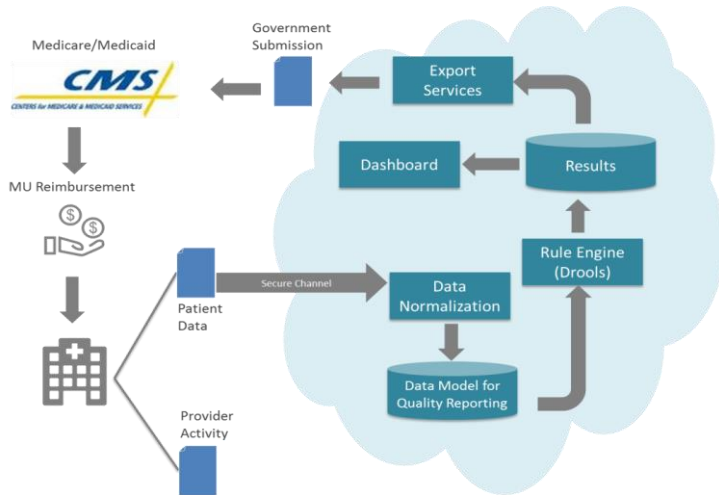
CitiusTech has been the client's partner for more than 10 years and has deep understanding of data and regulatory requirements for such a solution.

CitiusTech helped develop clinical quality rules engine for the client's EHR to enable real-time analytics, quality reporting for its providers and compliance with ONC certification.

CitiusTech Solution

CitiusTech developed the Rules Engine module on Azure for measure processing as part of CQR.

- Calculation of MU & PQRS measures through the calculation service; generating dynamic reports
- Drools for rules engine to perform analysis on the patient data; develop rules using Drools based on the measures published by CMS
- PaaS and IaaS as cloud service model
- High availability, scalability and fault tolerance
- Data encryption at rest and motion
- Provisioned for multi tenancy and secured access control with Data backups
- Support for 2000 members & 10,000 users
- Storage of **50 million patient records**
- Support for healthcare standard integration protocols
- Ingestion of **1.3 million patient records** per day
- Support up to **1.3 billion calculations** per day

CitiusTech

Conceptual Schematic

Value Delivered

- Leveraged our knowledge on cloud and analytics for application development and deployment on the Azure platform

- Enabled Meaningful Use Stage 1 / Stage 2 compliance through ONC 2011 / 2014 Certification

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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