



# CitiusTech: H-Scale on Microsoft Azure

Data Aggregation & Management Platform on Azure



Gold Cloud Platform  
Gold Application Integration  
Gold Application Development  
Gold ISV  
Gold Datacenter

## Healthcare Data Integration and Data Management Challenges

With massive volumes of data from EHRs, claims systems, devices, labs, pharmacies, consumer apps, etc. streaming in, healthcare organizations need data strategies that enable them to generate data insights and drive business performance. However, to make data actionable, organizations need a data interoperability solution that can integrate and curate data from a diverse set of healthcare applications, to establish an enterprise's data architecture.

## H-Scale on Microsoft Azure: Overview

H-Scale on Azure is a modular, configurable and scalable data integration platform that helps healthcare organizations build confidence in their data and accelerate their data strategies. H-Scale meets key healthcare requirements including data acquisition, data processing, data governance, data security and advanced analytics. H-Scale is a one stop interoperability solution that is portable to any data platform including Hadoop, NoSQL, MPP, RDBMS. H-Scale's consistent solution strategy across on-premise as well as cloud deployments unifies data strategy across the enterprise.

### Strategy Alignment

Healthcare data strategy based on componentized model which allows customers to drive their strategy according to business priorities

### Speed of Business

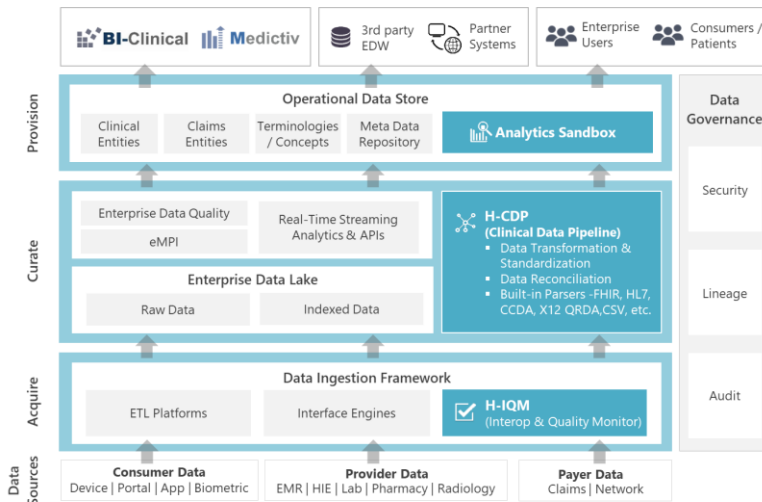
Scalable framework that can process and store the data at the speed of your business – bulk batch processing as well as real-time streaming

### Reduced Cost of Ownership

Faster, scalable, fault tolerant and inexpensive infrastructure as compared to traditional data warehouses

### Compliance

Support for Protected Health Information (PHI), security requirements and secure authorization



## H-Scale and Hadoop: Recent Work

### Real-Time Messaging and Event Notifications

Leveraged H-Scale, Kafka and Storm for event-based notifications and alerts, to drive interventions and improve care outcomes.

### CCDA Parser for a Leading Blue Health Plan

Implemented CCDA parser and ingested clinical data in the form of CCDA document for quality measure improvement and analytics.

### Enterprise Data Platform for a Leading Provider

Built an enterprise data lake for data aggregation and analytics. Utilized H-Scale's data quality component for data cleansing and curation.

### Scalable Data Lake / Big Data Architecture

Leveraged Hadoop to build a robust, scalable data lake to manage high volumes of data (5-10M messages per day).