Migrating Health Catalyst Data & Analytics Solution to Microsoft Fabric & Azure

Power Innovation and improve patient care with WinWire!

The Health Catalyst Data and Analytics Platform is used by healthcare organizations to fulfill their analytical needs.

It employs a Late-Binding Data Model that drives an Adaptive Data Warehouse approach to Data and Analytics.

However, while it can support analytical requirements, it limits healthcare organizations from utilizing the scale & integration of Data & AI services that a modern cloud-based model like Microsoft Fabric & Azure can provide.

WinWire, an exclusive Microsoft partner, can assist organizations in migrating seamlessly from Health Catalyst to Microsoft Fabric & Azure without disrupting their business.

Migrate Health Catalyst to Microsoft Fabric & Azure Data Platform and Services

WinWire offers a comprehensive approach to healthcare data migration, covering all subject areas provided by Health Catalyst in the form of Source Marts & Subject Area Marts (SAMs).
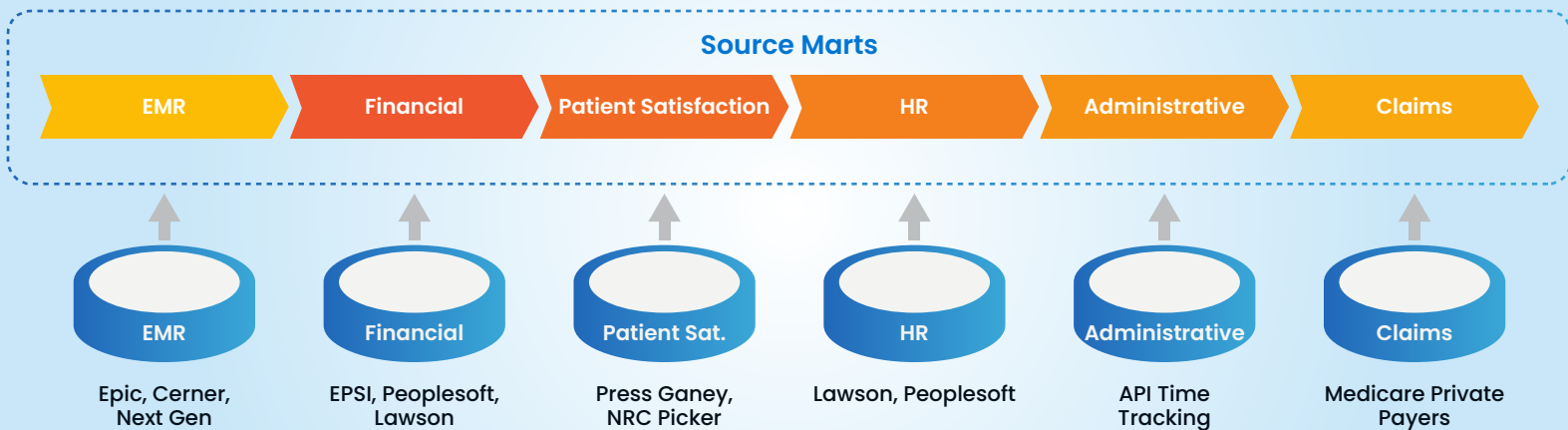
In this process, WinWire has mapped the Data Zones of Health Catalyst to each layer of the Lakehouse Medallion Architecture in Microsoft Fabric & Azure Data platform.

Raw Data Zone (Source Marts)

The Raw Data Zone of Health Catalyst is replaced with the bronze layer of medallion architecture on Microsoft Fabric OneLake or ADLS Gen2 on Azure Data Platform, for those not opting for Microsoft Fabric. The source marts, broadly classified from the following data domains have data-entity models that closely resemble the source systems at the same level of granularity.

This is usually stored in a Parquet file format on Fabric OneLake or ADLS Gen 2 on Azure Platform

EMR	Financial	Patient Sat.	HR	Administrative	Claims
Epic, Cerner, Next Gen	EPSI, Peoplesoft, Lawson	Press Ganey, NRC Picker	Lawson, Peoplesoft	API Time Tracking	Medicare Private Payers

Trusted Data Zone (Shared Data Marts)

The Trusted Data Zone, an essential part of the Health Catalyst Data Architecture, provides an enterprise view of the data, serving as an Enterprise Data Warehouse (EDW) with shared data marts, where the terminologies are standardized using RxNorm, SNOMED, & other digital health standards. Similarly, the silver layer of the proposed medallion architecture that replaces the Trusted Data Zone, is designed to hold data at the most granular level, making it the universal source of truth across the organization. This layer includes pre-defined data cleansing operations & transformations that ensure technical data quality across different domains such as patient, provider, debt, cost, facility, charge, diagnosis, procedure, lab, survey, census, encounter, & more.

The silver layer of the medallion architecture is responsible for maintaining all hierarchical sanctities such as clinical program to clinical care process and codes hierarchies. It ensures that the Clinical Program (e.g. Cardiovascular) is appropriately mapped to clinical care process family (e.g. Heart Failure or ischemic heart disease) to achieve operational effectiveness and clinical excellence. This layer usually stores the data in a Delta table format on Fabric OneLake or ADLS Gen 2 on Azure Platform.

The Refined Data Zone (Subject Area Marts - SAMs)

The Refined Data Zone (Subject Area Mart) is replaced by the gold layer of the medallion architecture. Each data mart in the gold layer or curated zone would serve a specific line of business for one or more use-cases. Domain specific source of truth will be established here with the aggregated data by taking subsets of data from the silver layer and transforming and aggregating as relevant to functional areas such as finance, clinical operations, supply chain or others. This is usually stored in a Delta Table format on Fabric OneLake lakehouse or Fabric Synapse Data Warehouse for the organizations using Microsoft Fabric SaaS service. Others can leverage dedicated SQL pools or serverless SQL pool in Azure Synapse Analytics.

The Exploration (Sandbox) Zone

The Exploration Zone usage of Health Catalyst Analytical Platform (if being used) is provisioned in private sandboxes as required for experiments by the analysts or data scientists.

Consumption Layer – Dashboard & Analytics

The existing proprietary Health Catalyst dashboards, reports and analytics (out-of-the-box and custom made) would be migrated to Power BI pointing to the gold layer. The reports that are built by clients are also redesigned (if needed) and repointed to the gold layer and reconciled for accuracy.

Health Catalyst Analytics typically cover the subject areas – Clinical Informatics, Laboratory and Quality; Patient Experience, Safety and Satisfaction; Pharmacy Medication Management, Ambulatory, Physician; Revenue Cycle, Supply Chain, Workforce, Facility Management; Cost Accounting; Executive Insights; Human Resource; Administration, and many more.

Migrate Rapidly with WinWire's MaaS Framework

WinWire helps organizations modernize and migrate their SQL Server Databases and data platforms like that of Health Catalyst to Azure Platform or Microsoft Fabric OneLake and Fabric Data Warehouse by leveraging its migration framework - WinMaaS Toolkit and its automated Data Ingestion solution WinAIDQ.

WinWire follows a structured and seamless approach to migration while mitigating risk and ensuring limited to no business impact. This covers Assessment, Architecture, Pilot, and a structured roadmap for execution.

Why choose WinWire for migration of Health Catalyst?

Up to 30% cost saving and 25% faster migration.

Deep Microsoft Fabric & Azure data platform experience & healthcare domain expertise.

Customer Story

A non-profit healthcare network provider in North America engaged WinWire to transition from Health Catalyst platform to Microsoft Fabric and Azure with an aim to establish a robust foundation for data migration and seamless transition while maintaining data integrity and quality.

Health Catalyst Migration to Microsoft Fabric & Azure: 3-Day Workshop

Leverage our rapid 3-day workshop for future proofing your patient care analytics solution by migrating to Microsoft Fabric and Azure data platform and services.

Microsoft
Solutions Partner