



HEALTHCARE **DATA MODEL** FRAMEWORK
Healthcare Specific Architecture Capabilities & Analytics



HEALTHCARE DATA MODEL FRAMEWORK OVERVIEW

The ClearSense Healthcare Data Model Framework is a highly mature and robust domain model combined with ClearSense data integration accelerators that facilitate rapid data acquisition, conformance, management, and interoperability across payer, provider, and research data sources. It provides a unified and optimized view of clinical, financial, and operational healthcare data at an enterprise level. These advanced data models adhere to industry standards, ensuring compatibility and seamless integration and interoperability with existing client systems. By incorporating best practices and domain expertise, the ClearSense Healthcare Data Model caters to healthcare's unique requirements and complexities, enabling efficient and effective data management, quality, analysis, and insight.

The ClearSense Healthcare Data Model offers a comprehensive library of over 1,000 pre-built data integration tasks and mass ingestion designs. These resources are designed per industry-leading design pattern standards, ensuring adherence to best practices and accelerating implementations. The out-of-the-box functionality enables healthcare organizations to leverage standardized and efficient data integration and interoperability processes, saving time and effort in data mapping and ingestion. The dynamic capabilities of the ClearSense Healthcare Data Model eliminate the need to rebuild from scratch each time new dataset expands, enhancing flexibility and agility. The extensive collection of pre-built integrations provides a solid foundation for data management and analytics within the healthcare domains.



Figure 1 - ClearSense Data Fabric

COMPONENTS

ACQUISITION ZONE

The Acquisition Zone enables seamless ingestion of diverse healthcare data from various sources with real-time, near real-time, and batch accelerators. It ensures data integrity through built-in audit, quality, and control attributes, supporting real-time messaging and dynamic connectivity to primary transactional systems. With prebuilt ingestion accelerators for payer, provider, revenue cycle, credentialing, and MDM sources, it expedites implementation and reduces configuration efforts.

EXPLORATION ZONE

The Exploration Zone is the enterprise layer for data governance and management, enabling insight and provisioning capabilities. It incorporates business and technical metadata, includes accelerators for common data sources, and ensures consistency through common enterprise tables. Audit, quality, and control attributes enhance data integrity, while streamlined implementation is supported with payer and provider data domains.

CONSUMPTION ZONE

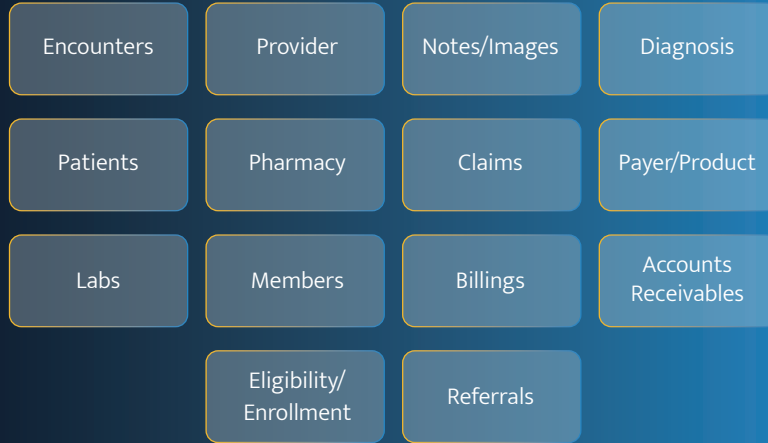
ClearSense provides healthcare-specific connectivity, data models, and metadata out-of-the-box functionality for applications, interoperability, and analytics. Its optimized products enable seamless integration, efficient data flow, rules engines, workflows, and quick insights for data-driven decision-making in healthcare. With ClearSense, organizations can enhance application performance, promote interoperability, and leverage data to improve patient care and operational excellence.

CONSUMPTION ZONE

Out-of-the-box connectivity, data models, & metadata optimized for healthcare applications, interoperability, & analytics

EXPLORATION ZONE

Business friendly Domain model



ACQUISITION ZONE

Real-time and batch data lake

WHY CHOOSE CLEARSENSE?

Clearsense has a proven track record of implementing diverse business use cases for our clients through previous implementations at some of the largest healthcare organizations in the US. This extensive experience allows us to provide architectural solutions and implementation expertise and become a valuable business partner.

We ensure our clients have reliable and accurate data insight for their operations by leveraging our enterprise data models, integration, and analytic deployments to drive data quality, conformance, and governance.

We have successfully collaborated with payers and providers on various projects, from designing architecture and integration deployments to incorporating payer data into our provider deployments. Our expertise extends to handling complex data quality challenges related to eligibility and enrollment and processing claims at different levels of granularity. With Clearsense design patterns and accelerators, we excel in addressing intricate business scenarios, such as retroactivity in enrollment and eligibility data (Type III processing).

BENEFITS



Accelerate time to value & fuel self-service analytics

Streamlined data access and analysis, empowering users with self-service analytics for faster actionable insights.



Healthcare-specific models & seamless data integration

Pre-built models and seamless data integration tailored specifically to the healthcare industry.



Connect all data

Designed to support the diverse data landscape of the healthcare industry.



Scalability

Effortlessly scaled with growing data volumes, enabling efficient handling of expanding datasets and unlocking valuable insights throughout your healthcare analytics journey.



Return on investment

The Clearsense Healthcare Data Model enables efficient data processing, streamlined analytics workflows, and improved decision-making, ultimately leading to cost savings, enhanced operational efficiency, and better patient outcomes.

Get To Know Us

Committed to leading transformation in healthcare, ClearSense® creates a data journey, all the way from number to key insight. Cloud-based, AI-enabled, and HITRUST-certified, the platform of data solutions ensure data governance, implementation, and analytics are rapidly mainstreamed while remaining scalable and secure. Driving faster outcomes in clinical, financial, and operational environments, ClearSense is powering the innovation of tomorrow—right now.

[Learn more at ClearSense.com.](https://clearsense.com)

The ClearSense Promise

Our Mission

Our mission is to unlock the full potential of healthcare data by delivering flexible solutions that empower data confidence and enable data-driven decision-making to achieve better outcomes.

Our Vision

We have created a holistic data environment with processes to cleanse, normalize, harmonize, and integrate better data with tools to make it more manageable, accessible, and valuable. We are unlocking the potential of data from patient care decisions, business operations, financial routines, and research.

Why Choose ClearSense?



One Platform, One Partner

One partner with an advanced end-to-end platform that empowers executives, business owners, clinicians, IT, and data scientists.



Data First Approach

Eliminates assumptions and replaces them with a single source of trusted data. Put trusted data into action without barriers or fear.



Healthcare Focused

We are 100% focused on the healthcare industry, which means we understand your data challenges and opportunities.



Security

Multi-cloud, HITRUST certified, HIPAA and SOC 2 compliant with SSO Integration. Role-based security controls at the application and data levels. We treat security with the highest level of importance.



Data Quality & Trustworthiness

Data governance advisory services wrapped around AI technologies and processes ensure the highest level of data trustworthiness.

Are You Ready to See Your Data More Clearly?

Learn More.



[ClearSense.com](https://clearsense.com)



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Your Data. **Protected.**

HITRUST



HIPAA & HITECH COMPLIANCE



ClearSense®

