Health Data in Motion (HDIM): Architecture & Security Overview

Designed for Health Information Exchanges (starting with InterSystems IRIS / HealthShare, Mirth, and Rhapsody environments) to meet state and public-health data-quality obligations and launch a partner data-quality scorecard service.

CONTROL / LAYER	IMPLEMENTATION & BOUNDARY
Runtime Posture	HDIM runs standalone today. MOS integration is planned (MOS is not HDIM's clinical runtime).
PHI & LLM Stance	Public demonstrations use 100% synthetic data. No PHI is routed to public consumer LLMs; deterministic validation executes locally/in-tenant.
Standards & Outputs	HL7v2 ADT, FHIR R4, Data-Quality Measurement (DQM), MPI identity matching, CQL care-gap rules, k >= 11 de-identification thresholds.
HIE Coexistence	Drops beside existing IRIS / HealthShare, Mirth, or Rhapsody pipelines via standard feed taps — zero core HIE rip-and-replace.
Commercial Path	$7.5k fixed-fee Data-Quality Sprint on 1 feed (100% credited) -> $25k–$50k (8–12 week) scoped pilot.

NEXT STEP & DIRECT CONTACT

Schedule a 20-minute technical or executive walkthrough to inspect live workflows on synthetic data.

Book: https://mahoosuc.ai/book?lane=hdim | Email: aaron@mahoosuc.solutions

Founder background: prior senior healthcare-integration architecture roles at HealthInfoNet, Healthix (led MPI replacement), and Verato (prior employment, not customer endorsements).