

# **Empower Collaboration: Bi-Directional Data Exchange and Interoperability Solutions for Social Care Networks**





## Seamless Connections, Empowering Communities: Interoperability Solutions for Social Care Networks

Aigilx Health offers an advanced Interoperability and Data Exchange Module designed to establish seamless connectivity among **Social Care Networks (SCNs)**, **New York State (NYS)**, and other stakeholders.

**Our FHIR-powered Interoperability** module empowers organizations by facilitating **bi-directional data exchange** through an accessible data and IT platform, supporting social care service navigation, **data sharing, reporting, and leveraging our expertise as data lake specialists.**



## Aigilx Health offers a variety of cutting-edge interoperability solutions that enable **social care networks to achieve greater outcomes**

### ● **Bi-Directional Data Sharing**

Our solution facilitates seamless bidirectional data exchange through various standards such as **HL7 FHIR, X12, Flat Files**, etc. with Community-Based Organizations (CBOs), Managed Care Organizations (MCOs), healthcare providers, and NYS, ensuring comprehensive collaboration.

### ● **Facilitation through Qualified Entities and SHIN-NY**

Leveraging Qualified Entities (QEs) and Statewide Health Information Network for New York (SHIN-NY), our solutions ensure secure electronic exchange of patient health information, facilitating efficient data exchange and analysis.

### ● **EHR Integration**

Seamlessly ingest and standardize healthcare data from diverse Electronic Health Record (EHR) systems, eliminating data silos, optimizing workflow efficiency and improving collaboration with labs, pharmacies, and providers.

### ● **Empower with SDOH Capability**

Stay ahead in healthcare's evolution by capturing Social Determinants of Health (SDOH) through ICD-10-Z codes, fostering a comprehensive approach to patient care.

### ● **Adoption of Consensus-Based Standards**

Our solution facilitates the adoption of consensus-based terminology and coding standards by SCNs, promoting data interoperability and facilitating efficient data exchange and analysis.

### ● **Compliance Assurance**

Our solution ensures compliance with federal and state privacy and security requirements, providing a safe and secure environment for HRSN data exchange, safeguarding sensitive information.

### ● **Collaboration with MCOs**

We facilitate seamless collaboration between SCNs and Managed Care Organizations (MCOs) for timely and accurate submission of payment data to the State All Payer Database (APD). Our platform enables secure data transmission, reconciliation, and reporting to ensure regulatory compliance and data integrity.

### ● **Meeting FHIR Standards**

Our interoperability solution is designed to seamlessly integrate with HL7 FHIR standards for data transactions between SCNs and QEs. For SCNs currently unable to meet FHIR standards, we offer comprehensive support and guidance to ensure compliance within the stipulated timeframe.



**Aigilx Health's Interoperability and Bi-Directional Data Exchange capability empowers SCNs and stakeholders with the tools, standards, and support necessary to foster efficient data exchange, collaboration, and ultimately, improve health outcomes and equity within communities.**





## Aigilx Health's Expertise in FHIR Powers SHIN NY's Data Lake Success

Aigilx Health played a pivotal role in transforming SHIN-NY's (Statewide Health Information Network for NY) data management landscape through our expertise in FHIR solutions and consulting.

Leveraging Aigilx's cutting-edge health tech and domain knowledge, the data lake project witnessed a rapid and seamless implementation, addressing challenges related to disparate health data and high volume.

Aigilx utilized a robust technology stack incorporating Big Data and FHIR, ensuring a comprehensive solution. **The aggregated data was seamlessly shared with SHIN-NY, featuring key elements such as FHIR Bundles, Mappers, Unique ID creation, Profile Validation, and the ability to convert any data format to FHIR.**

Aigilx's unique approach extended to a comprehensive handling of clinical data, incorporating USCDI standardization and validation.

This successful collaboration highlights Aigilx Health's prowess as FHIR experts and our ability to deliver innovative solutions in the healthcare data landscape.



Regional Health Information Organization



## **Aigilx Health's FHIR Implementation Revolutionizes Data Management for Rochester RHIO**

### **Client Background**

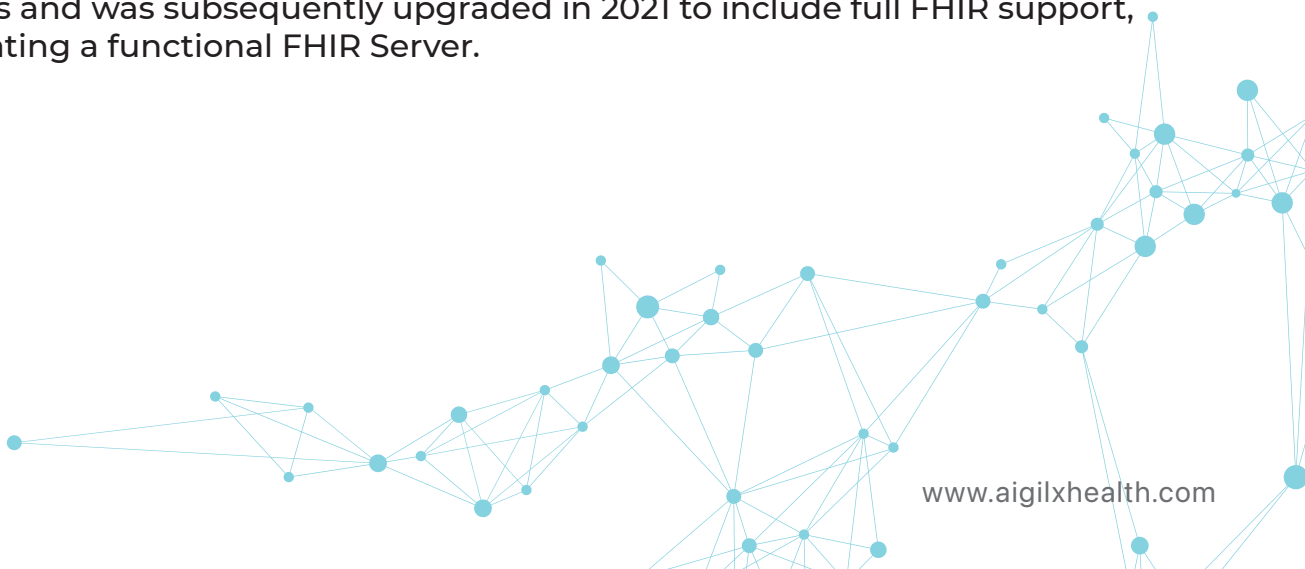
Rochester Regional Health Organization (RRHIO) sought to modernize its Health Information Exchange (HIE) operations by replacing its existing data management systems with a more scalable and efficient solution. With a significant volume of historical data and a growing demand for data exchange, RRHIO required a robust platform to handle its operations effectively.

### **Project Overview**

Aigilx Health was engaged by Rochester Regional Health Information Organization to enhance its data management capabilities. RRHIO wanted to replace their current data ingestion, aggregation and portal platform to a modern scalable architecture. The goal was to facilitate seamless data exchange and aggregation across diverse sources while ensuring scalability and compliance with regulatory requirements.

### **Solution Deployment**

Aigilx deployed its Meridian Data Aggregation Platform. The platform, which went live in June 2020, seamlessly migrated close to a billion historical messages and was subsequently upgraded in 2021 to include full FHIR support, incorporating a functional FHIR Server.





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## Aigilx Health's FHIR Implementation Revolutionizes Data Management for Rochester RHIO

### Key Achievements

#### Scalability

The deployed FHIR platform effectively addressed RRHIO's increasing data volume, which had doubled over the last three years, demonstrating its scalability and ability to handle growing demands. The current platform supports over **4.5 million patients, with around 450,000+ HL7V2 messages and 100,000 CCD messages** ingested daily from **90+ unique data sources** running 35+ different EHR systems.

#### Extensibility

Leveraging microservices architecture, Aigilx extended platform features such as CCD ingestion, validation, and reporting to meet **NCQA requirements**, along with facilitating FHIR resource exchange with the state of New York. Additional reports and integrations were seamlessly added post-initial deployment.

#### Availability

The platform enabled RRHIO to meet stringent availability demands, securing incentives and meeting state requirements effectively. The provider portal currently supports over **11,000 unique and active users** (external and internal users).

#### Lower Total Cost of Ownership

By delivering continuous value through additional features and leveraging the initial infrastructure, the platform ensured a high Return on Investment (ROI) and a reduced Total Cost of Ownership over time.



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### Regulatory Compliance

Robust security measures, comprehensive auditing, and reporting capabilities ensured RRHIO's compliance with regulatory requirements. **Sensitive data access** was monitored, with **Part-2 data appropriately tagged and any access is reported.**

Aigilx Health's FHIR implementation significantly enhanced RRHIO's data management capabilities, enabling seamless data exchange, scalability, and regulatory compliance. By leveraging innovative technologies and best practices, the collaboration positioned RRHIO as a pioneer in healthcare data innovation, fostering improved interoperability and unlocking new possibilities in healthcare delivery.







# REVOLUTIONIZE HEALTHCARE DATA CAPABILITIES

Improve health outcomes and health equity  
across the care network through our  
interoperable solutions.

To meet the 1115 Waiver Amendment objectives,  
get in touch with us now.

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