FHIR SERVICE
FOR AZURE STACK EDGE

Simplifying Protected Healthcare Information sharing

Integrate and exchange Protected Health Information (PHI) leveraging the HL7 Fast Healthcare Interoperability Resources (FHIR) standard on Azure.

Fractal Analytics can help organizations connect disparate data sources, such as electronic health and medical record (EHR/EMR) systems leveraging the FHIR Service for Azure Stack Edge. The solution provides organizations with a quicker, simpler, and more secure way to share protected healthcare information (PHI) in a HIPAA compliant manner.

By leveraging Microsoft's Azure IoT Connector for FHIR, Fractal Analytics can also help develop data ingestion pipelines for medical IoT devices. Creating a direct connection between EHR/EMR systems and medical IoT devices reduces dependencies on physical records and manual processes such as faxing and scanning records.

Integrate ➤ Share ➤ Collaborate

Integrate

FHIR provides a common interoperability standard for medical devices and services. The goal of FHIR is to provide a protocol for EHR/EMR systems to securely exchange protected healthcare information (PHI) in a HIPAA-compliant manner.

Azure makes FHIR adoption easier than ever by providing an easy- to- use FHIR API that can run on an Azure Stack Edge device, enabling organizations to integrate all their EHR/ EMR systems and medical devices at virtually location around the world.

Share

By connecting FHIR devices and services to Azure, organizations gain the benefits of a robust cloud platform. Among these benefits is its always on, accessible, and interconnected nature.
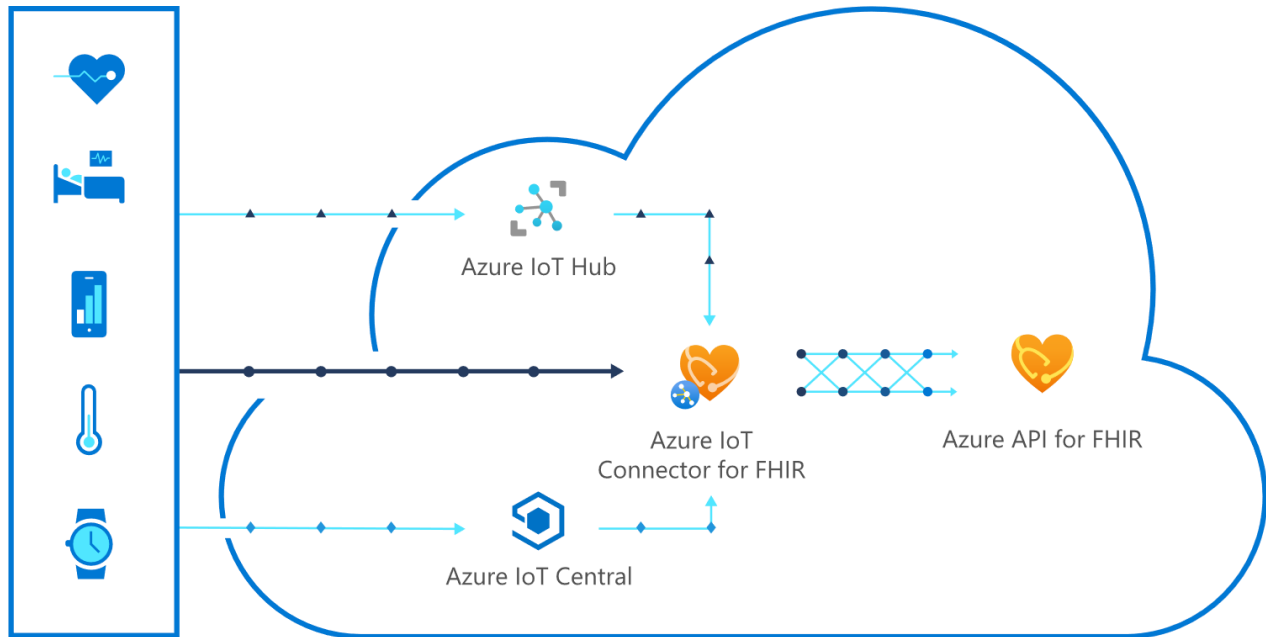
Leveraging FHIR while having every EHR/EMR system and medical device connected to a HIPAA-compliant cloud environment enables organizations to quickly and securely share PHI to other offices and personnel around the world.

Collaborate

Removing barriers to sharing PHI enables organizations to collaborate more quickly, allowing for quicker diagnosis, better quality of care, and an overall improved healthcare experience.

FHIR Service for Azure Stack Edge would make it easy for a doctor in one region to instantly share medical information with a specialist in another region. This would allow the specialist to review the information and return a diagnosis in minutes, without copying or emailing files.

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High-level IoT device architecture

FHIR-enabled IoT devices connect directly to the Azure API for FHIR via the Azure IoT Connector for FHIR. This enables the secure ingestion of biometric data from medical devices, then normalizes that data into FHIR so you can view it in context with other clinical data sets.

Azure IoT Hub

Azure IoT Connector for FHIR

Azure API for FHIR

Azure IoT Central

Why Fractal Analytics?

As the partner who helped build it, Fractal Analytics is the Microsoft Gold Partner with the most intimate knowledge of the FHIR Service for Azure Stack Edge code base. We helped develop the code and prepared it for open sourcing by Microsoft.

Fractal brings a comprehensive set of skills tohelp your train, deploy, and manage your FHIR Service implementation. We leverage industry best practices in all our projects with a keen eye on HIPAA compliance in FHIR implementations

Through our flexible engagement model, we can act quickly to support your FHIR implementation project, regardless whether you have a mature FHIR environment and want to connect it to Azure, get started with FHIR for the first time, or anywhere in between.

Strategy & Design
Business capability building
Business value quantification
Data strategy
Digital process redesign
Industry accelerators
Change management

Operationalization & Activation
DataOps
DevOps
MOps

Application development
Robotic process automation

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Cloud, Data & AI Implementation
Cloud infrastructure
Security & governance
Data estate modernization
Data and app migration
Custom machine learning
Predictive analytics
Edge & IoT AI