

# InterSystems IRIS for Health



The fastest way to build and deploy the most demanding applications

## Why InterSystems IRIS for Health

- **Proven Scalability** - InterSystems IRIS for Health easily scales horizontally (through sharding and our Enterprise Cache Protocol) and vertically (through parallel SQL queries) to meet the needs of your application.
- **Unified Development Environment** - InterSystems IRIS for Health includes a unified graphical and code-based environment that simplifies and accelerates development and maintenance of real-time, data-rich solutions
- **Embedded and Open Analytics** - InterSystems IRIS for Health provides embedded, state-of-the-art analytics capabilities for distributed SQL, business intelligence, and natural language processing in data-intensive, real-time applications.
- **AI, and Machine Learning for SQL Developers**
- **Apache Spark Integration**
- **Predictive Model Markup Language Support**
- **Natural Language Processing**
- **Cloud Provisioning and Management**

## Product Overview

InterSystems IRIS for Health™ is the world's first and only data platform specifically engineered to extract value from healthcare data. InterSystems IRIS for Health provides all the capabilities for building complex, mission-critical, data-intensive applications. It is a comprehensive platform spanning data management, interoperability, transaction processing and analytics, built to accelerate time to value.

## Product Features

### Healthcare Interoperability

InterSystems IRIS for Health offers extensive development tooling for healthcare interoperability standards and templates. These include:

- FHIR (DSTU2, STU3, R4)
- HL7 V2 and HL7 V3
- IHE Profiles, including XDS.b, XCA, PIX, PDQ, and MHD
- CDA/C-CDA Documents
- DICOM
- X12

### FHIR Support

InterSystems IRIS for Health provides the building blocks needed to develop FHIR applications, including:

- A base FHIR server implementation supporting standard FHIR RESTful API
- A FHIR resource repository supporting all FHIR resource types
- FHIR client components for handling client-side operations
- Built-in data transformations between FHIR and other healthcare interoperability standards such as HL7 V2 and CDA
- Support for FHIR-based IHE Profiles, including PIXm, PDQm, and MHD

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## Product Features continued

### High-Performance Transaction Processing and Analytics

At the core of InterSystems IRIS for Health is a proven, enterprise grade, distributed, hybrid transactional-analytic processing database to support real-time applications.

- Ingest, process, and store transactional data at high rates
- Simultaneously process high volume analytic workloads involving historical and real-time data(including ACID-compliant transactions)

### Robust Security

- Authentication. InterSystems supports multiple authentication mechanisms, including two-factor authentication.
- Authorization. Using our System Management Portal, you can easily assign and manage role- and application-based resource access privileges.
- Auditing. InterSystems products record all system and application events in an append-only log, which can be queried using SQL or a reporting tool.
- Database encryption. InterSystems IRIS for Health encrypts data-at rest and data-in-motion. To protect entire databases, it offers block level encryption.

### Freedom of Choice

- Choice of Language. InterSystems IRIS for Health supports a variety of development languages, including a native API for Java, .NET, and Python.
- Choice of Data Model. Each data model is accessible through the language of your choice. Multi-model features include:
  - Industry-standard APIs for SQL and object access
  - An API to store data in a custom optimized data structure
  - A reusable database connection that supports using the best data model for each task
  - APIs for your language of choice (including Java, .NET, and ObjectScript)
  - An underlying consistent structure, avoiding data duplication

### Full Life Cycle API Management

InterSystems API Manager (IAM) enables you to monitor and control traffic to and from your Web-based APIs. This enables you to:

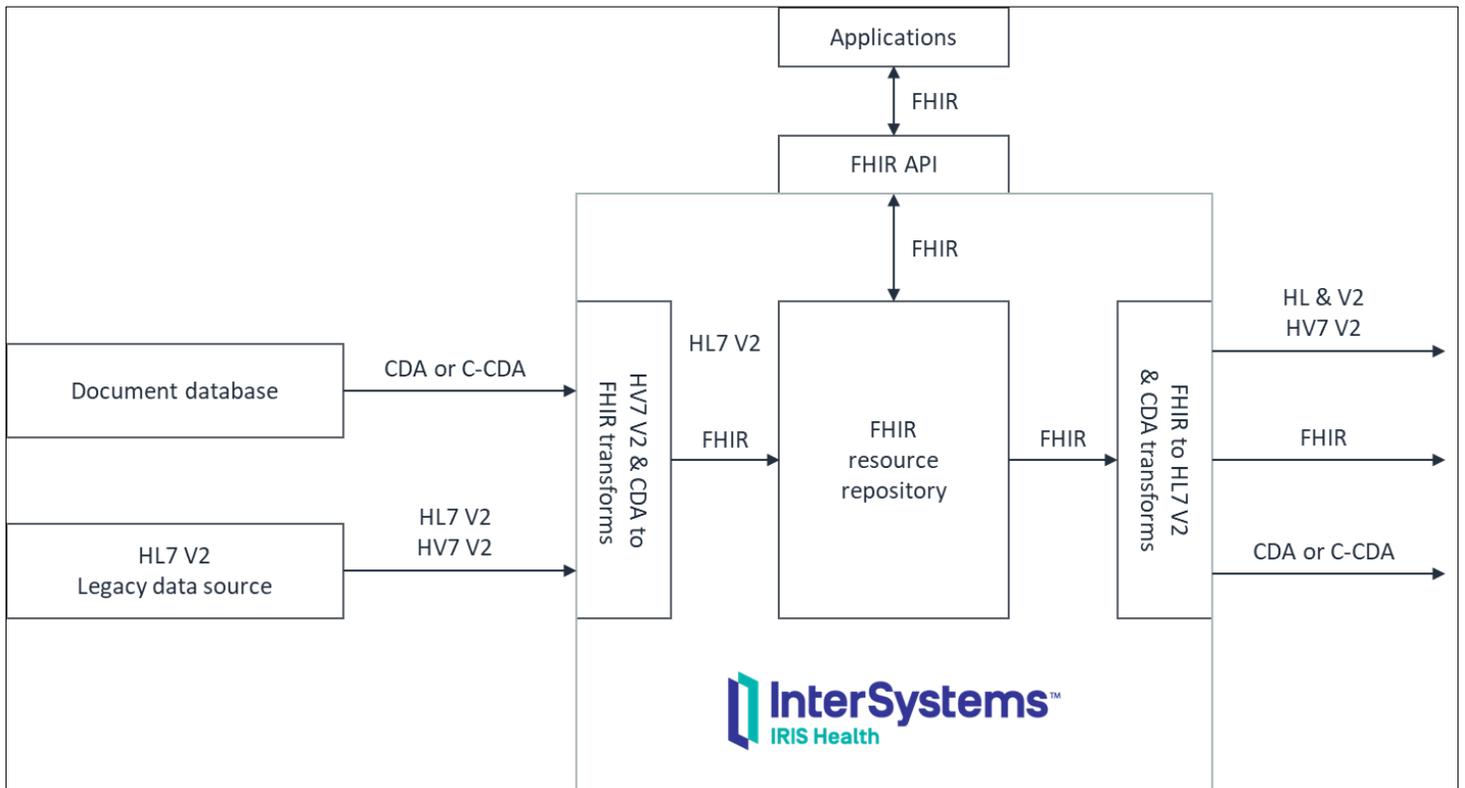
- Monitor all your API traffic in a central spot
- Plan, document, and update the list of APIs you are using and the servers that provide them
- Identify issues before they become critical
- Control API traffic by throttling throughput, configuring allowed payload sizes, whitelisting and blacklisting IP addresses and domains, and quickly taking endpoints into maintenance mode
- Onboard internal and external developers by providing interactive API documentation through a dedicated and customizable developer portal
- Secure your APIs in a central location



## How it works

The InterSystems IRIS data platform, built for critical data in the healthcare, finance, and manufacturing and supply chain sectors, supports rapid ingestion of data from various sources and sophisticated analytics. This [QuickStart](#) is for users who want to install IRIS on their own AWS account according to InterSystems and AWS best practices.

With the InterSystems IRIS data platform, you can build high-performance, machine learning applications that connect data and application silos. Specifically, IRIS is a database engine that supports transactional-analytic applications. Transactional applications deal with real-time data. Analytic applications deal with historical (non-real-time) data. Transactional-analytic applications make it possible for organizations to use insights gleaned from both real-time and historical data.



### What our customers are saying



InterSystems will help us connect the dots on every patient record, delivering the information California payers and providers need as they move toward value-based care."

**-David Kates, Chief Technology Officer at Manifest MedEx**

Solution available in [AWS Marketplace](#)