

Understanding InterSystems IRIS for Health™

InterSystems IRIS for Health™ is a robust, comprehensive data platform specifically designed for the healthcare industry. It supports HealthTech companies of all sizes in developing information-rich applications faster, more securely, and at scale, with the flexibility to swiftly deliver innovative solutions. Managing over one billion health records globally, IRIS for Health ensures that critical healthcare information is readily accessible and securely handled at all times.

Healthcare interoperability and data standards



InterSystems IRIS for Health offers a low-code approach to data and application integration, making it accessible and efficient for developers.

The platform provides extensive development tools for healthcare interoperability standards and templates, including Fast Healthcare Interoperability Resources (FHIR®), integrating the Healthcare Enterprise (IHE) profiles, Health Level 7 Version 2 (HL7 V2), and Digital Imaging and Communications in Medicine (DICOM).

IRIS for Health's advanced interoperability allows seamless connection to NHS systems, including the Spine Messaging Platform (SMSP), which supports the Personal Demographics Service (PDS); Electronic Prescription Service (ePS), the Child Protection – Information Sharing (CP-IS), and the Interoperability Toolkit (ITK). **Additionally, it enables connectivity with private healthcare organisations, all of which helps ensure broad compatibility across different healthcare systems.**

Business process orchestration



IRIS for Health offers advanced low-code graphical business process orchestration capabilities, which include a business rules engine and a workflow engine.

These features enable the automation of enterprise-wide business processes and the creation of new composite applications that integrate seamlessly with existing infrastructures. The platform quickly and efficiently transforms business processes, thereby reducing manual workloads.

AI and machine learning



InterSystems IRIS for Health is equipped with powerful AI and machine learning (ML) capabilities that generate operational efficiencies and enhance patient care.

IntegratedML®, an embedded feature within IRIS for Health, allows application developers to easily create and train machine learning models without advanced data science skills. The deep integration with InterSystems IRIS enables applications to seamlessly execute these ML models in response to real-time events and transactions, directly on the data, eliminating the need to extract or move models or data around. The platform's embedded vector search capabilities also allow HealthTechs to leverage large language models (LLMs) for generative AI innovation.

Healthcare data management



At the core of InterSystems IRIS for Health is a cloud-agnostic, secure, and ultra-high-performance database designed for 24/7 healthcare

data management. Its multi-model, multi-workload database management engine supports vertical and horizontal scalability, accommodating the growing demands of healthcare data. This engine can ingest, process, and store transactional data at high rates while simultaneously handling high-volume analytic workloads involving both **historical and real-time data, ensuring that critical information is always available when needed.**

API management



The platform helps developers create robust web-based Application Programming Interfaces (APIs) that provide secure database access via

Representational State Transfer (REST) or Simple Object Access Protocol (SOAP). It offers full life-cycle API management capabilities that support discovering, consuming, routing, throttling, securing, logging, monitoring, and monetising APIs, facilitating a modern microservices approach to development.

InterSystems API Manager (IAM) allows organisations to **monitor and control traffic to and from web-based APIs**, including FHIR APIs, ensuring data flows smoothly and securely across different systems.

Healthcare analytics framework



InterSystems IRIS for Health has real-time analytics capabilities that drive informed decision-making processes. It allows the

inclusion of analytics and AI in solutions using an open analytics platform, supporting embedded, standards-based, and best-of-breed analytics technologies for exploration, analysis, and prediction.

The platform provides built-in analytics capabilities that run against data stored in its database, giving users rapid access to actionable insights. This enables the execution of a wide variety of analytics directly within applications, close to the data source. The platform also supports third-party analytics tools, allowing data scientists to continue using their preferred tools for maximum flexibility and efficiency.

Trusted by industry leaders

InterSystems IRIS for Health is utilised by leading independent software vendors, healthcare organisations, clinical laboratories, and regional health information networks globally. By leveraging InterSystems IRIS for Health in your HealthTech solutions, you join over 2,000 other partners committed to enhancing healthcare delivery through innovative technology. This broad adoption underlines the platform's reliability and effectiveness in addressing the complex needs of modern healthcare systems.

Embrace the power of InterSystems IRIS for Health and play your part in the transformation of healthcare technology.



InterSystems™
IRIS Health

Get in touch to arrange a discovery session today www.intersystems.com/uk