

HL7 and HIPAA Data Services with the Informatica Intelligent Data Management Cloud (IDMC) for Healthcare and Life Sciences

Gain Trusted and Harmonized Healthcare Data

Technology and innovation are transforming healthcare and life sciences. Patients receive higher quality of care, healthcare organizations are more efficient, and the overall patient experience is better. Underlying this shift is data. And not just any data. Organizations need accurate, trustworthy, comprehensive and accessible patient data in order to deliver superior care, make timely decisions and respond quickly to time-sensitive threats and opportunities.

Interoperability is key to this change, providing a connected healthcare experience and better supporting decentralized data. Interoperability helps organizations overcome fragmented care and inconsistent patient information. The result? Healthcare providers and life sciences professionals get the information they need, when and where they need it. And patients gain access to their health records to become more engaged, active participants in their care.

However, technological barriers must still be overcome to share healthcare data in compliance with complex industry standards. These standards include the widely adopted Health Level 7 (HL7) v2.x standards and the newer HL7 Fast Healthcare Interoperability Resources (FHIR) standard, as well as the EDI X12 Health Insurance Portability and Accountability Act (HIPAA) standard. Organizations need to be able to address all these standards that co-exist and bridge older and newer versions.

Key Benefits

- Simplify and expedite handling complex HL7 and HIPAA data standards
- Easily exchange data with electronic medical records (EMR)
- Harmonize trusted, accurate healthcare data across applications
- Support interoperability standards
- Adhere to data security and privacy mandates
- Obtain consumption-based pricing

Advance Data Exchange and Interoperability with Cloud-Native HL7 and HIPAA Support

The Informatica® Intelligent Data Management Cloud™ (IDMC) for Healthcare and Life Sciences is the industry's most complete and modular enterprise data management solution. The solution is designed to help healthcare and life sciences organizations unleash the power and value of all data across local systems and hybrid and multi-cloud environments. It helps ensure data is accessible, clean, valid, transparent, governed and understood. Organizations can then comply with industry regulations while reducing the cost of compliance, avoiding unwanted audits and financial penalties.

IDMC delivers advanced, cloud-native data services to enable and support healthcare data standards. It is designed to help source, process, validate and transform data. This can enable healthcare and life sciences organizations to efficiently manage, master and access EMR data and claims data for operational or analytical use cases — in batch and in real time — and overcome the data and technology barriers to interoperability.

IDMC enables critical insights from healthcare data while leveraging industry standards for data exchange as shown in Figure 1. Once the data is ingested by IDMC — accepted in HL7 or HIPAA formats — it is then cleansed, transformed and processed to harmonize and synchronize patient data across applications. This helps ensure data is accurate, complete and up to date. In addition, IDMC helps ensure that the strict data security and privacy requirements of HIPAA are met, which in turn helps protect electronic patient health information (ePHI) and other sensitive data from unauthorized access, use or disclosure.

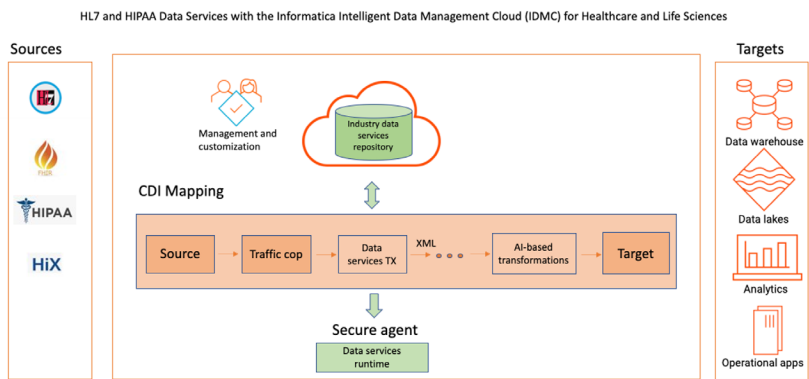


Figure 1. The solution architecture of HL7 and HIPAA data services with IDMC.

Key Features

- Pre-built data services to parse, generate, validate and transform HL7 2.x, HL7 FHIR and HIPAA messages, with the option to customize messages and services as needed
- Pre-built maps between HL7 2.x to FHIR to allow translation between the two standards
- Pre-built AI models to parse HL7 and FHIR messages to relational structures and to support writing to relational data model and analytical targets
- Pre-built healthcare connectors supporting minimal lower layer protocol (MLLP) for the HL7 or FHIR rest connectors to connect to FHIR servers
- Extensive list of IDMC connectors to connect to any source/target
- Data exchanged in real-time and batch

Key Benefits

Simplify and Expedite Complex HL7 and HIPAA Requirements

Leverage a set of pre-built data services and industry-specific capabilities that expedite and simplify the handling of complex data structures such as HL7 2.x, HL7 FHIR and HIPAA. IDMC can help parse, validate and transform the different messages and provide pre-built maps between HL7 2.x and HL7 FHIR, in addition to delivering pre-built AI-models for parsing HL7 FHIR to relational formats.

Easily Exchange Data with Electronic Medical Records (EMR)

Help ensure the sourcing and sending of EMR records and other patient data in various formats and latencies. With IDMC connectors, you can use minimal lower layer protocol (MLLP) for HL7 messages and the FHIR rest endpoint to connect to FHIR servers. Process the received messages in batch or in real time to address operational or analytical use cases.

Harmonize Trusted, Accurate Healthcare Data Across Applications

Integrate healthcare and life sciences data across applications, bringing together data in different formats and latencies, while ensuring it is accurate, complete and up to date. Consolidate the data into a single, centralized source of truth and make it available and accessible to different stakeholders in the organization, democratizing data for all users.

Support Interoperability Standards

Comply with current and emerging healthcare regulations for interoperability and data block with full support for FHIR, code set standards, security protocols and other necessary capabilities.

Adhere to Data Security and Privacy Mandates

Adhere to the strictest data governance policies, standards and definitions when handling patient data. Help ensure data is transparent, timely, secure and accurate for regulatory compliance and protection of sensitive patient information. Operationalize data privacy governance using automation to comply with new requirements and increasingly complex local, national and global privacy mandates.

Obtain Consumption-Based Pricing

Gain access to HL7 and HIPAA services and IDMC capabilities with Informatica's flexible consumption-based pricing model. You can start small and then expand as your business and data management requirements evolve. The Informatica processing units (IPU) model and volume tier pricing are available for all data management solutions and services, including data integration, mass ingestion, API and app integration, data quality, data governance and catalog, and data masking. You can get started with convenient IPU or flex IPU consumption plans. For more information, check out our [IPU pricing page](#).

Learn More

Explore further how HL7 and HIPAA data services can benefit your organization. Visit www.informatica.com/healthcare and www.informatica.com/life-sciences to learn more about how you can advance interoperability within industry standards.

Get a faster return on your investment with Informatica Professional Services

Talk to our experts in cloud data management.

Check out our services.

Informatica (NYSE: INFA) brings data to life by empowering businesses to realize the transformative power of their most critical assets. When properly unlocked, data becomes a living and trusted resource that is democratized across your organization, turning chaos into clarity. Through the Informatica Intelligent Data Management Cloud™, companies are breathing life into their data to drive bigger ideas, create improved processes, and reduce costs. Powered by CLAIRE®, our AI engine, it's the only cloud dedicated to managing data of any type, pattern, complexity, or workload across any location — all on a single platform. Informatica. Where data comes to life.

