



Harmonizing data landscapes: Achieving seamless connectivity through interoperability

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In today's complex tech environment, compiling medical records from diverse sources—including medical devices and various health systems—has become increasingly challenging.

This makes it imperative for modern patient solutions to not only facilitate seamless information flow across these sources but also provide a centralized repository for storing and accessing all patient data.

Contributors

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Achieving interoperability

Infor®, backed by the robust support of Koch Industries, excels in delivering unparalleled interoperability in healthcare through four fundamental pillars:

- **Long-term stability:** Infor solutions are built to last, ensuring consistent performance and reliability over time.
- **Strategic reinvestment:** Infor continually reinvests in its technology, driving innovation and staying ahead of industry trends.
- **Focused expertise:** Infor's dedicated focus on healthcare ensures that its solutions are tailored to meet the unique needs of the industry.
- **Diverse partnerships:** Infor fosters strong, diverse partnerships to enhance capabilities and broaden its reach.

"I think one of the biggest things we've seen at Infor from Koch is the reinvestment into the product sets. Infor has 120 developers focused on Interoperability. Enterprise Interoperability is not easy. We believe our platform allows organizations to embrace a 'buy and build' strategy. Time to value is the biggest thing we bring to

Koch Industries, a multinational conglomerate headquartered in Wichita, Kansas, owns Infor. As a global leader in enterprise solutions and cloud platforms, **Infor offers managed services for both software-as-a-service (SaaS) and on-premises license models**, ensuring flexible and scalable solutions for its clients.

partnerships," says Jeff Mueller, GM and VP at Infor. "I'm sure Molex and (its subsidiary) Phillips-Medisize can attest to that as well. They really do a great job of reinvesting and providing research and development."

Phillips-Medisize exemplifies this commitment by developing comprehensive solutions from initial concept through to production. Its expertise spans devices, apps, and cloud-based platforms, including sophisticated device analytics portals. These solutions are widely adopted by hospital systems with electronic health records, demonstrating the seamless integration and value that interoperability can bring to healthcare.

Interoperability: Buy and build

For device manufacturers, the interoperability strategy should not be a choice between buying and building—it should encompass both. This dual approach ensures that healthcare providers can leverage existing technologies while tailoring solutions to meet specific needs.



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Creating and deploying a medical device globally presents several challenges:

- **Dispersed patient data:** Patient information is often scattered across various locations, making it difficult to compile and analyze.
- **Diverse standards and adoptions:** Different regions, countries, and customers adhere to varied standards and adoption rates, complicating interoperability.
- **Complex EHR integration:** Direct integration with electronic health records (EHRs) is time-consuming and can be costly.

“Focusing on the core values for what you build that really adds value to your customers, and then buying a capability that you can use to build your products on top of, is important,” says Joerg Schwarz, Senior Director at Infor. This strategy ensures that manufacturers can deliver innovative solutions efficiently and effectively, enhancing the overall value to their customers.

Introducing Cloverleaf

Infor introduced Cloverleaf® as the premier healthcare data integration platform for life sciences, addressing the industry’s most pressing interoperability challenges.

Built on Infor OS, Cloverleaf harnesses data to train machine learning models, tackling the issue of duplicate records—a common problem when clinicians repeatedly add information to existing records. Cloverleaf efficiently aggregates and harmonizes data, ensuring that it is accurately integrated and accessible.

With approximately 500,000 active connections among providers, payers, platforms, lab companies, and medical device companies, Cloverleaf processes an astounding 1.5 billion messages daily.

“This concept of data aggregation and harmonization means that data from various sources and legacy formats can be converted into Fast Healthcare Interoperability Resources (HL7® FHIR®). This really unlocks a lot of value because standardized access to curated data allows rapid development of products and machine learning (ML)/artificial intelligence (AI) solutions desired in the healthcare industry,

as well as rapid deployment and integration around the world,” says Schwarz, Senior Director at Infor.

Infor Cloverleaf adds immense value to the device development and deployment process by providing a curated data platform that seamlessly connects with legacy healthcare systems globally. This enhances the efficiency and effectiveness of healthcare delivery, driving innovation and improving patient outcomes.

“What we imagine, in a world where the data is harmonized, is that wherever the patient is, there is data coming to and from the patient that informs what’s happening there at the patient’s bedside, which could be in the home—it doesn’t have to be in the hospital,” says John Frownfelter, Healthcare Industry Consulting Director and Lead for Data-Driven Health at NTT Data, a Japanese multinational information technology service and consulting company headquartered in Tokyo, Japan. “That data is flowing through that data clearinghouse—the Cloverleaf engine—and then it’s informing the clinicians with intelligence and actions that need to be taken.”



The Infor Cloverleaf healthcare data platform streamlines the exchange of clinical data to help improve healthcare outcomes and business operations. The software allows healthcare organizations to efficiently solve complex interoperability challenges securely and at scale, while using the latest standards (including HL7 FHIR). Cloverleaf provides the clinical integration foundation for healthcare providers, health information exchange (HIE) solutions, Accountable Care Organizations (ACOs), laboratories, and application and medical device makers (ISVs and OEMs). The platform also supports virtualization for private and public cloud implementations and leverages leading fail-over and availability mechanisms.

About Infor

Infor is a global leader in business cloud software products for companies in industry-specific markets. Infor builds complete industry suites in the cloud and efficiently deploys technology that puts the user experience first, leverages data science, and integrates easily into existing systems. Over 67,000 organizations worldwide rely on Infor to help overcome market disruptions and achieve business-wide digital transformation.

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