Infor Cloverleaf Integration Suite

Bridge isolated platforms

No matter the size of your health organization, you're challenged with meeting data integration, data exchange, and information management needs. You need to integrate data that's segregated in application silos, exchange information with partners across the care continuum, and apply that data so you can respond satisfactorily to regulatory and compliance requirements.

While these requirements aren't new, the changing landscape of healthcare, the exponential growth of data, the increase of patients as more informed consumers of care, and the scope of applications and partners have all upped the ante for better interoperability and information exchange. In particular, the need to better manage risk through improved care coordination and utilization management requires you to continuously track key quality and performance metrics and share information across a patient's continuum of care.

To integrate and improve your business operations, as well as make optimal care coordination a reality, your healthcare technology must be able to bridge isolated platforms.

Get the data you need

With the Infor™ Cloverleaf® Integration Suite, you'll have an end-to-end integration platform that addresses the fundamental obstacles to healthcare integration, which allows for the exchange of information within and beyond your organization's four walls. Many of the world's leading healthcare organizations, health information exchanges (HIEs), medical device manufacturers, and hospital information system vendors trust the Infor Cloverleaf Integration Suite to handle their most complex integration and information exchange challenges.

Simplify interface development; maximize reuse; and deliver the flexibility, scalability, and high-performance requirements necessary for healthcare integration with the Cloverleaf Integration Suite's easy-to-use graphical tools and unmatched extensibility. You'll bring patient information to the point of care, empowering your clinicians to make effective and informed decisions.

Take advantage of a full spectrum of interoperability standards (such as HL7 v2 and v3, ASC X12, and NCPDP) and support for proprietary formats—with three levels of security—with the first platform to come to market with an Integrating the Healthcare Enterprise® (IHE) solution and mobile monitoring for Cloverleaf administrators.

Other vendors provide only point-to-point integration and have difficulty scaling multisite environments. With the Cloverleaf Integration Suite, you'll have an integration platform and associated modules that create an ecosystem of clinical interoperability. You'll connect data, doctors, and communities—inside and outside of your organization's primary site—and create a solid foundation for clinical excellence.

Rely on flexible integration

Benefit from a robust solution that's known throughout the industry as a fast, reliable, scalable, cost effective, and easy-to-use platform for integrating and delivering data. With the Infor Cloverleaf Integration Suite, you can:

- Design, manage, and deploy data throughout your entire care network.
- Develop, supervise, validate, and monitor thousands of interfaces producing millions of messages and transactions per day.

- Rely on agile and scalable integration across highly diverse data information sources (such as medical devices, electronic health records, labs, imaging, and insurers) and compatibility with all popular databases, application servers, operating systems, and platforms.

Easily integrate the Infor Cloverleaf Integration Suite with your existing IT infrastructure and have confidence in a solution that's designed to handle the specific nuances of healthcare, the demands of information exchange, and the semantics of each standard.

Use powerful tools

Use powerful tools to configure, test, and manage the Infor Cloverleaf Integration Suite with the platform's Infor Cloverleaf Integration Engine's support for multiple communication protocols and real-time batch transactions. Also, take advantage of robust messaging functionality with message management, message routing, translation, transformation, normalization filtering, and more. With the Infor Cloverleaf Integration Engine, you'll have the power to deal with syntactical differences between heterogeneous systems, as well as tools that can translate between common formats and transform data between dissimilar formats.

You'll have access to powerful tools that assist in speed of delivery, integration, and issue resolution. With the Infor Cloverleaf Integration Engine, you get:

- **Network Configuration Route View:** Quickly resolve issues with a single-message route view that includes inbound and outbound protocols and translations.
- **Database Connection GUI:** Build direct connections and SQL statements to JDBC-compliant databases—with no need for scripting.
- **Buildable Object Xchange (BOX) Migration Utility:** Package up custom or standard interfaces and components, so that you don't have to start new interfaces from scratch. Reduce redundancy and errors, easily deploy new interfaces quickly, and share your BOXed interfaces with other users using migration wizards.
- **Site Doc:** Capture your Infor Cloverleaf Integration Suite's site configurations in a graphical site map and backup blueprint, which you can use for managing your integration environment and disaster recovery.

Infor Cloverleaf Integration Suite:

- Manages high-volume messaging, upward of 30-million messages per day, in a single, integrated delivery network.
- Integrates clinical results directly into referring physicians' electronic health records.
- Transfers data directly from medical devices.
- Powers 16 sustainable health information exchanges (HIEs).
- Facilitates hospital-to-HIE and HIE-to-HIE interoperability.
- Promotes the achievement of meaningful use objectives.

- **Generic Java Driver:** Connect to other systems using Java® technology or transport methods. You can capture all routing activities in a single log for management and troubleshooting purposes because applications are more tightly connected to the Infor Cloverleaf Integration Engine with the Generic Java Driver.

Extend functionality

Use the Infor Cloverleaf Integration Suites' modules to extend the solution's proven reliability, availability, and scalability. With these modules, you'll have faster integration, tighter user security, more secure messaging, increased connectivity, 24x7 monitoring, and zero downtime.

Connect data in more ways

Infor Cloverleaf IHE Infrastructure Adapter. Permit legacy applications to fully participate in an IHE framework for HIEs at an enterprise level, or between enterprises. Continue to use your existing technology investments, such as your hospital information system and clinical applications, because the Infor Cloverleaf IHE Infrastructure Adapter is application-agnostic.

Infor Cloverleaf Data Integrator. Securely integrate and interoperate the ODBC-compliant, Infor Cloverleaf Integration Suite with industry-leading database management systems (DBMS), such as Oracle®, Microsoft® SQL Server, and IBM DB2, to ensure that data is flowing to the needed applications and systems for informed point-of-care decisions.

Infor Cloverleaf Web Services Adapter. Quickly create connections via new web-service protocols. Build web services using out-of-the-box support for web service security, SOAP wrapper handling, RESTful web services, and WSDL creation and parsing. Use web services to provide a more efficient and faster means of sending information over the Internet to supporting systems located outside your organization.

Secure sensitive information

Infor Cloverleaf Security Server. Manage security at the server level and determine who's accessing the data, based upon role and authentication privileges. Use Infor Cloverleaf Security Server to provide continuous control and audit user access to minimize unwarranted Infor Cloverleaf Integration Suite configuration changes.

Infor Cloverleaf Secure Courier. Deploy this lightweight agent across multiple clients to allow sending and receiving data via a centralized Infor Cloverleaf Security Server. Use Infor Cloverleaf Secure Courier to extend the Infor Cloverleaf Integration Suite across the Internet into remote networks, providing a secure means of transmitting any healthcare data (such as demographic, clinical, financial, and operational) to your physician community or other entities—particularly those with limited IT resources.

Infor Cloverleaf Secure Messenger. Provide security at the message level by protecting messages throughout the transmission process. Create a secure connection with any other secure-enabled endpoint, such as a web server, FTP server, or SSL socket.

> **"Infor is dedicated to the healthcare industry, and this dedication gives us confidence in our decision to implement the Infor Lawson Cloverleaf Integration Suite."**
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> **—Marcelo Trujillo, Integration Team Analyst, Adventist Health System Information Services**

Analyze data from multiple sources

Infor Cloverleaf Message Warehouse. Use the JDBC-compliant Infor Cloverleaf Message Warehouse's built-in logic to copy and send messages to a designated DBMS automatically, without affecting message routing. Integrate messages captured in the database with an analytical tool to determine patterns or trends.

Avoid system disruptions

Infor Cloverleaf High Availability. Choose from multiple configuration options to maximize your uptime while minimizing hardware investments. Use automatic detection and notification of hardware failure, as well as automatic failover, to gain peace of mind by knowing that mission critical systems are up and running and that processes, patient care, and revenue are not impacted by hardware problems.

Infor Cloverleaf Global Monitor. Use proactive, web-based monitoring and alerting for your Infor Cloverleaf Integration Suite environment, along with Infor Cloverleaf Global Monitor's message tracing functionality. Use widgets to create customized views and dashboards for reviewing the statistics of your Infor Cloverleaf Integration Suite environment and statistical reports of metadata captured in the Infor Cloverleaf Message Warehouse module. Deploy these views to departmental users to free up valuable resources. With iPhone application functionality, your IT staff can have monitoring access 24x7 while mobile.

Improve interoperability

As healthcare organizations like yours continue to strive to improve patient care and financial performance, it's imperative that patient information is readily available, regardless of the source. With the Infor Cloverleaf Integration Suite, information can be easily shared between disparate systems, ensuring that the data is secure and readily available. Whether you need to manage 300 or 30 million messages per day to systems that impact patient-care decisions, you can rely on the Infor Cloverleaf Integration Suite to send that data, without interruption.

Expedite integration, improve interoperability, and make better use of existing resources with Infor Cloverleaf Integration Suite. With more than 20 years of experience and thousands of successful implementations across the globe, you'll benefit from the market-leading Infor Cloverleaf Integration Suite's reliability, scalability, and speed of integration.

> "I can walk out of a meeting with interface specs and have messages ready to test within an hour."
>
> —William E. Couch, Project Manager
> Infrastructure Applications,
> St. Luke's Episcopal Health System

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641 Avenue of the Americas
New York, NY 10011
800-260-2640
infor.com

About Infor.

Infor is the world's third-largest supplier of enterprise applications and services, helping more than 70,000 large and mid-size companies improve operations and drive growth across numerous industry sectors. To learn more about Infor, please visit www.infor.com.

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