

# Informatica Intelligent Cloud Services Application Integration

## Key Benefits

- Implement processes and APIs with zero code
- Build APIs with sophisticated data integration capabilities
- Leverage out-of-the-box connectivity to over 150 apps/databases or develop your own in 30 seconds
- Future-proof your integration needs with a microservices architecture
- Support your mission-critical apps on a high-performing, scalable, available platform supporting trillions of transactions per month
- Part of the industry's #1 and most comprehensive iPaaS platform

## Modernize Your Data, API, and Application Integration in a Multi-Cloud Environment

### **Automate Business Processes, Accelerate Transactions, and Fuel Real-Time Analytics**

Enterprises are rapidly expanding their application and data footprint to multiple cloud deployments. And, at the same time, they are retaining their mission critical apps and data on-premises. It is not uncommon that a business process like an order flow, traverses through multiple applications, such as order entry, pricing, CRM, and inventory management, in real time. These applications and the corresponding data repositories, such as orders database, pricing database, and customer database, are typically deployed in a distributed manner—some on-premises and others on disparate public or private cloud infrastructures. For an order process to complete successfully, the applications and the corresponding databases must be tightly integrated. Existing enterprise integration technologies are rigid, expensive to maintain, and too slow to respond to the speed and requirements of the new business.

Informatica® Cloud Application Integration (CAI) service offers a single, trusted solution to support any integration pattern, data set, user-type or endpoint to automate business processes, expedite transactions and enable real-time analytics. It is based on a modular, microservices-based architecture for agile support of future business requirements. It supports multiple new and unique integration patterns, which include on-premises to cloud real-time data integration, real-time/B2B application integration, process orchestration, data synchronization, and more. CAI provides a consistent look and feel across all experiences tailored to user roles such as developers, citizen integrators, and operator/administrator, using a common user interface shell. It provides out-of-the-box integration to over 150 cloud and on-premises applications and databases for quick deployment. Users can integrate multi-cloud applications, without writing a single line of code. And, CAI is part of Informatica Intelligent Cloud Services<sup>SM</sup>—the industry's #1 and most comprehensive iPaaS solution supporting cloud data integration, cloud application and process integration, API management, data quality and governance, master data management, data security, and much more.

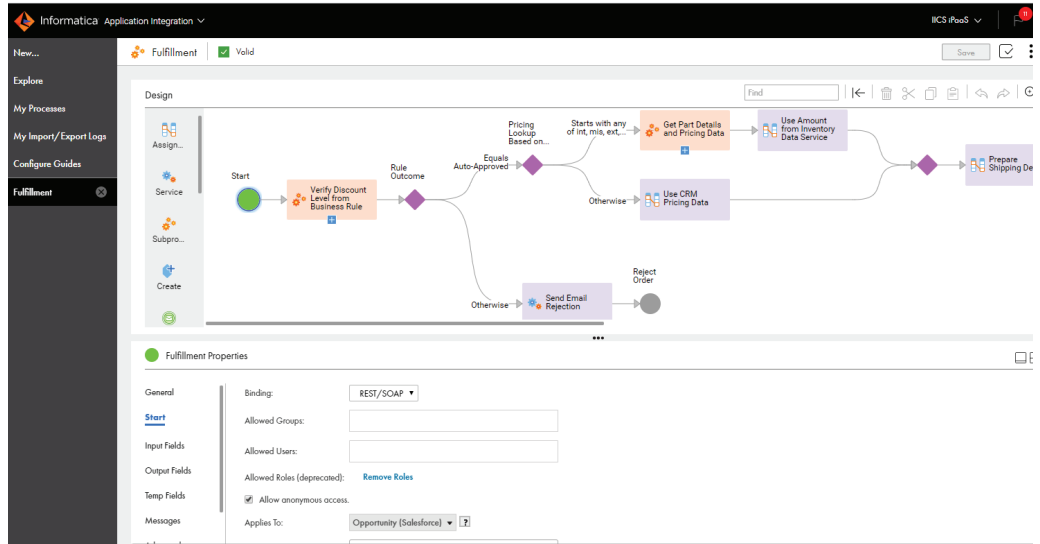


Figure 1: Define a Business Process without Writing a Single Line of Code

## Key Features

### Process Server

Process Server is Informatica Cloud Application Integration’s run-time and process management engine that can scale to meet the needs of the cloud and enterprises of any size. It ensures business continuity and can be deployed as a cluster in failover mode to ensure high availability. It securely partitions users into discrete tenants, or IICS organizations. With this multitenant architecture, each tenant shares hardware and software resources, but has its own private and secure access to Process Server.

### Process Console

Process Console provides a central location to configure and manage Process Server instances and its deployed resources. It provides a means to schedule processes and deploy new or updated processes. Tenants can perform root cause analysis if a process exception occurs and then take corrective actions. Process rewind—a process exception management feature—offers the ability to visually rewind a process to a specific activity and redo the work without having to invoke any of the built-in compensation logic, giving organizations unprecedented flexibility in managing and running in-flight processes.

### Process Designer

Cloud users demand an easy-to-use web interface for creating their integrations and automating processes. The Process Designer is a suite of tools for building cloud-based processes, which can reside and run within Informatica Intelligent Cloud Services or on some other endpoint. It provides the ability to create a sequence of steps that specifies a business process and connects with services and APIs and accesses or updates data. These processes are defined requiring zero code, instead using built-in wizards to significantly drive up productivity. Process Designer is intended to be used by a technical power user—an automation designer—who may or may not be a developer but knows the business processes and services used to accomplish them.

### Process Developer

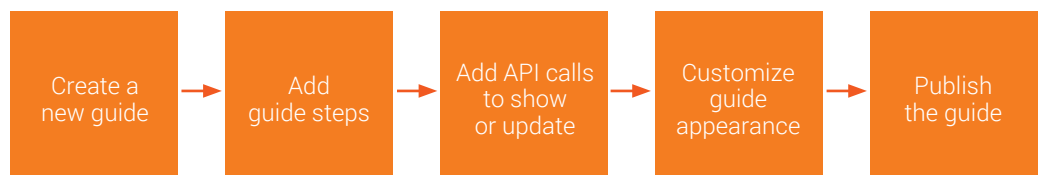
Development teams must often work on multiple projects including Java, service-based development, and orchestration. They shouldn't have to necessarily adopt new development tools each time they switch between projects. For this purpose, Informatica also offers Process Developer, a rich Eclipse-based IDE intended for developers, that incorporates the BPMN, BPEL, and BPEL Extensions for People (BPEL4People) standards. Its optimized and easy-to-use features make it easy for developers to create business process applications quickly.

### API and Application Integration Guides

Many organizations implement Salesforce in their call centers but soon realize that they need access to data outside of Salesforce. With API and Application Integration Guides, users such as call center agents are guided through their various call scripts while accessing data from other systems (including on-premises and cloud-based systems), and all data related to each call is recorded automatically and accurately to Salesforce or external systems, as needed. End users interact with data and applications in real time, irrespective of app/data location and without the need to simultaneously access multiple applications. For example, a screen might display account details or prompt the user to confirm the status of a sales call. Behind the scenes, the user's process interacts with multiple applications or data repositories by extracting, presenting, and updating data. Guides and API-based integration cut out the need for the end user to do swivel chair integration which is tedious and error prone.

Developers, citizen integrators, or business analysts create guides at design time, without technical expertise or formal training. A screen step for end users to interact with backend applications and to access/review/update data, can be defined with a few clicks. No coding required. Adding a step is as easy as defining the name of the next step. Guide designers then simulate how a guide appears when you run it. A guide can be simulated from the beginning or from any step. This ensures higher productivity and fewer errors. Guides run within Salesforce's mobile apps or within the Salesforce Classic or Lightning experience.

**The following image shows the guide design process:**



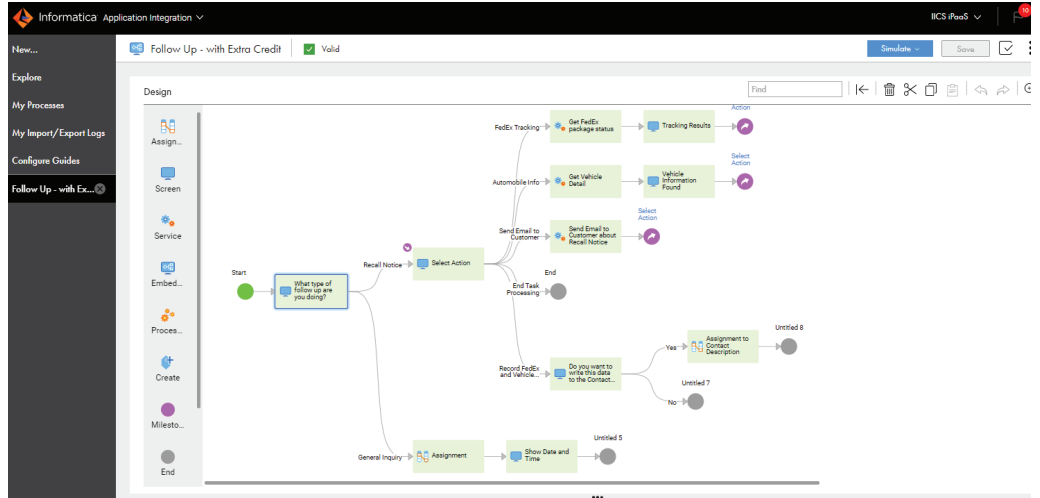


Figure 2: A guide driving the user from lead to opportunity

### Secure Agent

An Informatica Secure Agent is a lightweight program that enables secure communication across the firewall between your organization and the Informatica Intelligent Cloud Services. It can be installed on-premises or in the cloud. It acts as a container for various services such as the Channel Service that manages communication to and from the cloud service, the Data Integration Service that accesses and processes data both on-premises and in the cloud, and the Process Server Service for process execution, exposing and consuming APIs, etc. For example, if you are running a CRM application on the cloud and need access to the on-premises customer database, the Secure Agent will ensure real-time, secure access to on-premises customer data.

### Connectivity

Customers can benefit from rich connectivity options, either choosing from over 150 connectors or joining hundreds of customers who have configured over 6,000 custom connectors to integrate data sets, applications, and services anywhere:

- Build REST (XML/JSON, JSON/RPC, or SOAP) service integration using a simple form. If the service offers a WSDL or Swagger interface document, the Service Connector can be created by importing the interface document. Informatica has established a GitHub repository to publish Service Connectors it has created. Customers and partners are free to use these definitions without restriction, including the rights to use, copy, modify, merge, publish, and distribute these under an MIT license. Contributions back to the community are encouraged to drive innovation and reduce perceived barriers to adoption.
- Utilize data service connectors and connect to JDBC, OData, SAP Table Reader, SAP BAPI, Workday, and NetSuite (capable of a variety of CRUD operations). Use OData clients such as Salesforce Lightning Connect to access OData streams across the web and on-premises.
- Integrate with messaging services using built-in JMS, AMQP (includes Azure Service Bus), and Amazon Web Services SNS/SQS messaging services for queue and topic processing.
- Integrate content using file content listeners/writers to consume or deliver data sets held on file system, S3, or FTP/s.

## Cloud and On-Premises Interaction

Informatica Cloud Application Integration is built for multi-cloud environments. Incoming service (i.e., API) requests to a cloud-deployed process (depicted below) can originate from a cloud or on-premises consumer over JSON RPC and SOAP and REST (XML/JSON). These either initiate a new process or represent a callback or some event that the process is waiting to receive. The API Gateway secures and applies various access policies to provider APIs. Invoking cloud-based services (for example, Salesforce or NetSuite) employs the security mechanism offered by that service. REST (XML/JSON) or JSON/RPC services exposed by customers are secured using HTTPS Basic-Auth or handled by third party OAuth providers. SOAP services exposed by customers are secured using Basic-Auth at the HTTPS layer. Additional forms of authentication are available via WS-Security in the form of WS-Security tokens. The Username, X.509, and SAML token formats are supported.

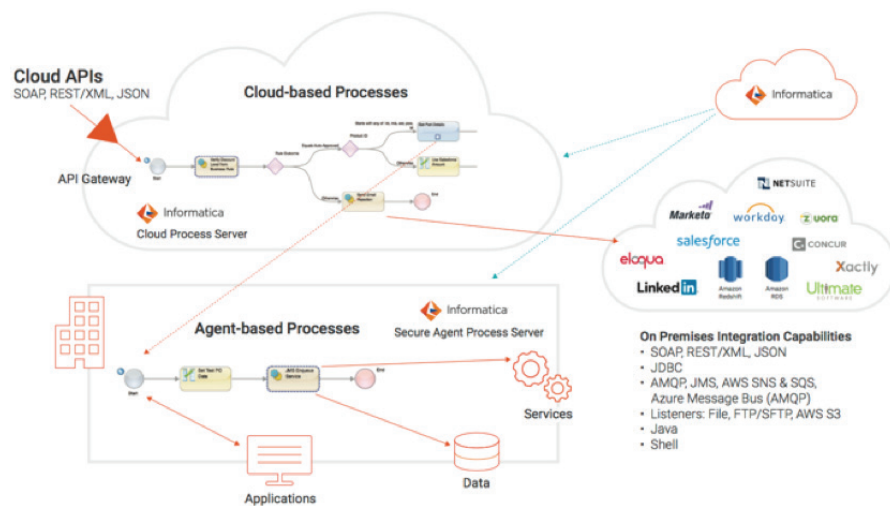


Figure 3: Informatica Intelligent Cloud Service, Third-Party (i.e. Salesforce) Cloud, and On-Premises Interactions Managed by Secure Agent

## Key Benefits

### Implement Processes, APIs, and Guides Without code

Build your integration applications and APIs with Informatica's integrated design environment. Combine and orchestrate real-time data or services from cloud applications, such as Salesforce or Workday, with on-premises data sources like Oracle or SAP, or API-based REST (XML or JSON), and SOAP services—even if they reside outside corporate firewalls. Develop various classes of APIs such as application, data service, or data set APIs. No code is required. When you're ready to expose your APIs to your partners, customers, or within the enterprise, use the built-in API gateway to secure and monitor your REST, OData and SOAP application, and data APIs. In addition, developers, citizen integrators, or business analysts create guides, at design time, without technical expertise or formal training. No coding is required.

### Assemble Applications With Rich Connectivity

Choose from over 150 connectors or join hundreds of customers who have configured over 6,000 custom connectors to integrate your data sets, application, and services anywhere: in the cloud or on-premises. Build your data APIs using sophisticated data integration capabilities including synchronization, replication, transformation, and mass ingestion capabilities.

## About Informatica

Digital transformation changes expectations: better service, faster delivery, with less cost. Businesses must transform to stay relevant and data holds the answers.

As the world's leader in Enterprise Cloud Data Management, we're prepared to help you intelligently lead—in any sector, category, or niche. Informatica provides you with the foresight to become more agile, realize new growth opportunities, or create new inventions. With 100% focus on everything data, we offer the versatility needed to succeed.

We invite you to explore all that Informatica has to offer—and unleash the power of data to drive your next intelligent disruption.

## Develop a Custom Connector in 30 Seconds

Have a custom API-based application for which there is no off-the-shelf connector? Use Informatica Cloud Application Integration to define custom service connectors. You can create “connectors on the fly” by either importing a WSDL/Swagger document or create manually in a web form. It takes just a few clicks to create connectivity that behaves the same way as native connectors.

## Automate Long-Running, Real-Time Processes

Important business processes that span cloud and on-premises assets, applications, and data services, such as discount approval, order-to-cash, or service-call resolution can take days or weeks to complete and involve complex interactions between systems and human work flows. Automate your data ingestion, propagation, and business processes using Informatica CAI's sophisticated orchestration capabilities.

## Support Your DevOps Practices

Easily enable your DevOps practices using CAI's project/folder/asset export and import function, which facilitates continuous delivery through automation with external version control systems, releases, and deployment pipelines. In addition, headless SDLC (i.e., no UI needed, given the use of APIs) for CI/CD support increases developer flexibility and efficiency. This helps teams with many developers and hundreds of integration artifacts fully automate backup and recovery to any source control system and to continuously assemble and deploy across environments.

## Integrate On-Premises, Cloud Messaging Systems

Use Informatica CAI to integrate your existing queuing and pub/sub messaging systems. CAI interoperates with a variety of messaging systems including JMS, AMQP AWS SNS/SQS, and Microsoft Azure Messaging. When you're ready, you can phase out your ESB and replace its functions with Informatica's CAI service for broader integration capabilities. In addition, Kafka support by CAI significantly increases current message-based pub/sub interactions between data and applications. The ability to bridge these message-based events with [Cloud Integration Hub](#), for example, offers unique flexibility to customers.

## Learn More

To learn more about Informatica Cloud Application Integration, please visit: [www.informatica.com/cai](http://www.informatica.com/cai).

To learn more about Informatica API Manager, please visit: [www.informatica.com/api](http://www.informatica.com/api).



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