Modernize Your Data, API, and Application Integration

Data-driven digital transformation is creating new use cases that require different patterns of integration. API integration is rapidly growing as a pattern for integrating applications in near real time. With Informatica® API Manager, customers can develop, publish, manage, monitor, deprecate, and consume APIs to orchestrate their business processes that span multiple clouds and on-premises systems within and outside their firewalls. Not only does Informatica offer the ability to develop and consume APIs, the Informatica Intelligent Cloud Services™ (IICS) API Manager service provides differentiated capabilities to manage the entire API life cycle.

Build Intelligent APIs, Simply

Informatica Makes Your APIs Do More for You than Any Other Vendors

• Democratization of APIs: Informatica ensures that integration APIs can be developed not only by elite Java-class developers, but also by the members of your data and application teams. The data, application, and orchestration APIs you build are enabled with a simple point and click. This is game-changing for organizations that can no longer depend on the availability of consultants and overloaded IT teams. Simplicity, accessibility, and productivity capabilities make this possible.

• Advanced Data Access to Any Data, Any Pattern, Any Latency: Informatica provides customers with the broadest data access and manipulation through the power of APIs that no other vendor can match. Orchestrate, ingest, synchronize, replicate, transform, and lift and shift any data, residing anywhere (be it cloud or on-premises, inside or outside your firewall), at any speed, with any specified latency, in real-time all with an API call. Access to your APIs is controlled, throttled, and monitored. Simply put, you can create your data as an API in a secure, well-managed manner.

• AI-Enabled Metadata Discovery: Data comes from anywhere and too often not described. Using the AI/machine learning-powered CLAIRE™ engine built into API Manager, you automatically discover and describe your data for usage in various integration scenarios. Whether you are processing large bulk datasets, exposing or making API calls, or initiating mass ingestion of data, without being able to describe the data, tools cannot effectively work for you. CLAIRE-based metadata discovery gives your teams the intelligence that they need to understand and capture the value of your data. The results: unsurpassed capabilities from any other vendor.

Key Benefits

• Improve development efficiency with a zero-code environment, automated API discovery, data APIs, auto-generated interface definitions
• Increase business agility with democratized API development
• Develop robust APIs with fine-grained debugging
• Control APIs with complete life cycle management
• Secure your sensitive data with Informatica’s API Gateway Policies
• Get visibility of your API usage with API Manager Analytics
Key Features

API Development and Design
To develop your APIs, you must choose an API type, plan your API capabilities, design your methods, and implement a standard response format such as XML or JSON. Your clients can consume and orchestrate a variety of application and data services that you expose as composite APIs. Incorporate REST, SOAP, Java, SQL, and Stored Procedures, message queueing and pub/sub systems and a variety of other on-premises and cloud applications and services. A Cloud Data Integration (CDI) taskflow can be invoked on-demand via APIs for externalized scheduling and execution. You can provide input parameters to the API for the tasks it orchestrates. Since taskflows can embed other taskflows to promote reuse, by definition, you can invoke sub-taskflows with APIs, as well.

API Introspection
The APIs you define are self-descriptive using industry standards like REST Swagger (OpenAPI) and SOAP/WSDL. There’s no need to create interface documents. These are generated automatically for developers to consume. It just works.

API Registry
APIs you publish are automatically registered to the API Registry, which makes them easy for you to manage and easy for others to discover and access. One click is all you need to expose these APIs and start monitoring usage by your applications and partners.

API Gateway
With the API Gateway you can deploy, activate, and secure APIs, both within the organization and with your partners. The functions that API Gateway carries out include securing and controlling access to APIs by applying policies such as rate limiting and IP filtering. The gateway supports REST (XML and JSON) and SOAP APIs.

API Manager
API Manager is used by API administrators and developers to manage and monitor APIs. Its functions include:
• Exposing service APIs
• API life cycle management including activating, deactivating, and deleting APIs
• API description
• API policies
• API usage analytics, logging, and security exception monitoring
• Organizational-wide rate limiting and IP filtering policies can be applied. Rate limiting policies can be specified to each API.
API Portal
The API portal can be used to offer APIs to consumer developers. It is part of the Informatica Intelligent Cloud Services and is seamlessly integrated with the Informatica API Gateway and API Manager. The portal offers a “try it” API testing capability, which enables the application developer to quickly try out an API before using it in an application. The swagger viewer makes it easy for back end implementation and client-side consumption. The Analytics dashboard provides the API consumer with its usage trend over time and most used APIs.

API Monitoring
API Monitoring provides comprehensive security and exception logging. API administrator can quickly identify and analyze unauthorized API access attempts and policy exceptions.

Analytics
API Managers benefit from an automated and customizable graphic analysis of usage reporting, analytics, and trend reporting of integration APIs.

Localization Support
Customers have access to the API and Cloud Application Integration services user interface and documentation in Japanese.

Key Benefits
Use Zero Coding to Rapidly Implement Rest or Soap APIs
As a developer you can build application, data service, and data set APIs with Informatica's integration design environment. Zero coding is required when you use built-in wizards to significantly drive up productivity. Leverage Informatica’s sophisticated application integration services to orchestrate API-based systems and expose APIs to your applications, teams, and partners. Augment your integrations with rich data integration capabilities including: data synchronization, replication, transformation, and mass data ingestion. When you’re ready to expose your application and data service APIs to your partners, customers, or within the enterprise, use our built-in API gateway to secure and monitor your REST and SOAP application and data APIs.

Get Started Within Minutes With APIs at Your Fingertips
Enterprise and B2B application developers can get started in minutes and develop rapidly with all the APIs available in a single dashboard, including how to use these, best practices, pitfalls, etc. Developers can request access to managed APIs, collaborate, and quickly try out APIs before using it in their applications.
Build Robust APIs That are Scalable and Secure
Developers want their APIs to be highly scalable and secure and be consumable by multiple applications and interfaces. You can implement and debug your APIs and integrations to test these with multiple clients as well as checking that these scale with sudden surges in the number of users, transactions, or applications. Authentication support includes Basic HTTP and JSON Web Token (JWT) authentication, an open standard (RFC 7519), which enables a compact and self-contained way for securely transmitting information between API consumers and IICS REST services. This provides IICS users that use API Manager with another more secure means of API authentication. You can also take advantage of Informatica’s built-in monitors, which evaluate every step of execution and data manipulation. This is invaluable in building robust and reliable APIs for developers.

Manage the Entire API Life Cycle
API administrators and developers can easily control and monitor their APIs with API Manager used to expose service APIs, and drive the API’s life cycle, including activation, deactivation, and decommissioning.

Prevent Rogue Access to Application and Data APIs
Access to APIs is controlled and secured using policies for authorization, rate limiting—including endpoint specific rate limits, and IP filtering policies—including IP whitelist and blacklist. The comprehensive security exception log allows an API administrator to quickly identify and analyze unauthorized API access attempts and policy exceptions.
Get Greater Visibility Through Real-Time Analytics
The API Manager Analytics Dashboard includes a visual summary with APIs usage analytics, such as trends and usage over time, APIs with the most invocations, and the most frequent users. API administrators can take corrective actions such as change an API usage limit to fulfill a business need, based on real-time insights.

Figure 2: The API Manager Analytics Dashboard provides visibility into API usage, trends, and users

Improve Developer Efficiency With Automated API Discovery and Grouping
API Manager automatically lists all the available REST and SOAP web services created by your organization. To build their API clients API metadata and interface descriptions are automatically generated. WSDL or Swagger (OpenAPI) interfaces are automatically generated by API Gateway. You can better manage the use of JWT tokens and associate their use to multiple API endpoints, with the API application grouping capability. This provides API consumers with fewer tokens to deal with and API producers can more easily manage or revoke a consumer’s access to multiple APIs.
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.

Experience Higher Productivity With Integrated DevOps Environment

API manager is part of Informatica Intelligent Cloud Services (IICS)—the industry’s most comprehensive iPaaS solution supporting cloud data integration, cloud application and process integration, API management, master data management, and much more. The next-gen solution offers tightly integrated user experience for developers, business analysts, and API administrators, which makes their interactions frictionless. The common user experience also means that skills will be rapidly re-usable between IICS products and that the learning curve is greatly shortened.

Learn More
To learn more about API Manager, please visit: www.informatica.com/api

To learn more about Cloud Application Integration, please visit: www.informatica.com/cai