

Informatica API Manager

Key Benefits

- Improve development efficiency with a zero-code environment, automated API discovery, data APIs, and 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 into your API usage with API Manager Analytics

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 Vendor

- **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:** Through the power of APIs, Informatica provides customers with broad data access and manipulation 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 without description. Using the AI/machine learning-powered CLAIRE® engine built into API Manager, you can 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, providing capabilities unsurpassed by any other vendor.

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 queuing 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
- Applying organization-wide rate-limiting and IP filtering policies and specifying rate limiting policies to each API
- Customizing the default API URL, assigning IP filtering to APIs, better managing APIs with version control, and shortening response times with API caching

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 Manager benefits 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.

OAuth 2.0 support

OAuth 2.0 is a market standard and is important for security compliance. When used in conjunction with Client ID and Secrets, OAuth 2.0 extends authorization choices that today include basic authentication and JSON-Web Token (JWT)-based authentication.

Key Benefits

CLAIRE-Powered Privacy Data Compliance

As an API developer or administrator, you can apply privacy policies for personally identifiable information (PII) data, and audit, record, and block PII leakage in API requests and responses. You can select the type of information to protect and whether to apply the protection of each information type to requests, responses, or both.

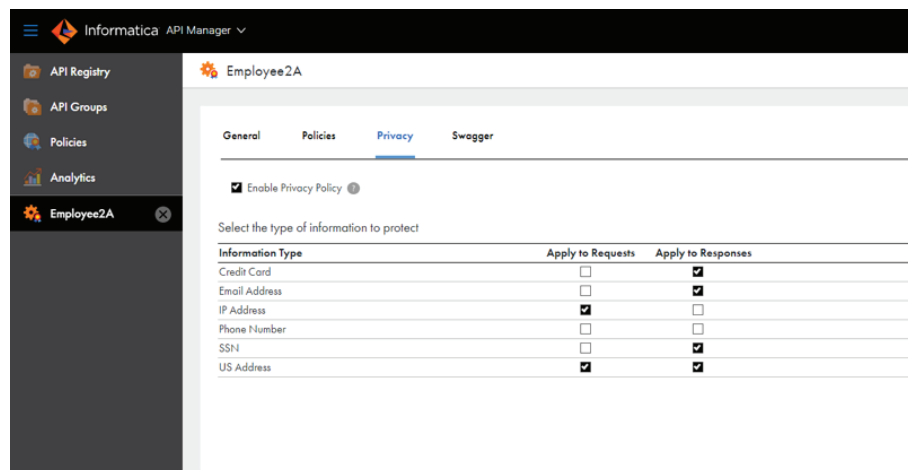


Figure 1: Apply privacy policies for PII data in API requests and responses.

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, along with information on how to use the APIs, best practices, pitfalls, etc. Developers can request access to managed APIs, collaborate, and quickly try out APIs before using them in their applications.

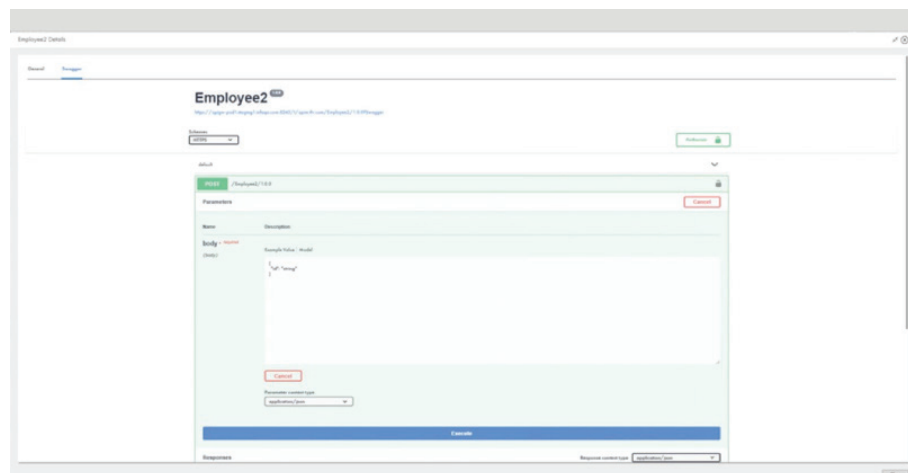


Figure 2: API Portal Swagger Viewer.

Build Robust APIs That are Scalable and Secure

Developers want their APIs to be highly scalable, secure, and consumable by multiple applications and interfaces. You can implement and debug your APIs and integrations to test them with multiple clients, as well as to check that they will scale with sudden surges in the number of users, transactions, or applications. Authentication support includes Basic HTTP and JSON Web Token (JWT) authentication and 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 who 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 using API Manager to expose service APIs and to drive an 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—and 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 of API 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 changing an API usage limit to fulfill a business need, based on real-time insights.

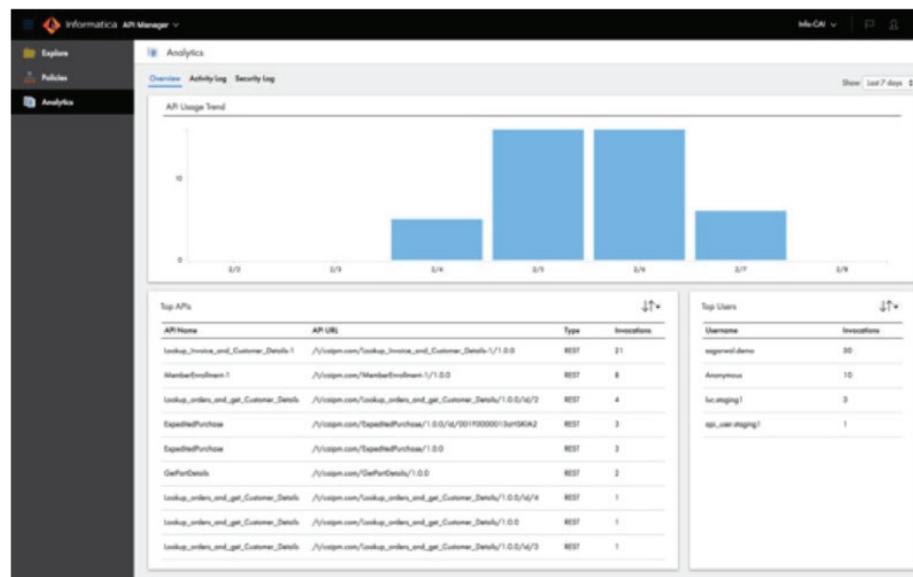


Figure 3: The API Manager Analytics Dashboard provides visibility into API usage, trends, and users.

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 an Integrated DevOps Environment

API Manager is part of Informatica Intelligent Cloud Services—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 a 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



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