Informatica

Informatica API Center

AI-Powered API Lifecycle Management From Creation to Retirement

Whether launching a new business model, spinning up a new channel or onboarding a new partner, APIs are a critical component to success.

APIs have become commonplace, and with so many different personas throughout the API lifecycle (architects, business technologists, developers, consumers, producers, designers, citizen integrators, etc.), the need for end-to-end API lifecycle management is critical.

With Informatica API Center, a service of Informatica Intelligent Data Management Cloud™ (IDMC), organizations can now design, implement, deploy, monitor, deprecate, secure, discover, reuse and retire APIs that span multiple clouds and on-premises systems within and outside their firewalls.

Enterprise-Grade API Lifecycle Management
Informatica Helps Your APIs Do More for You

- **Democratization of APIs:** Informatica ensures that APIs can be developed not only by elite Java-class developers, but also by members of your data and application teams. The APIs you design are implemented with a simple form-based, user-friendly and intuitive designer. This is a game-changer for organizations that can no longer depend on the availability of consultants or overloaded IT teams.

Key Benefits

- Reduce operational costs by streamlining the full API lifecycle with zero coding

- Increase business agility with democratized API development

- Secure sensitive data with API gateway policies

- Get visibility into your API usage with real-time analytics

- Design, develop, test and deploy APIs from a collaborative dashboard

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- **Advanced Data Access to Virtually Any Data, Pattern and Latency:** Through the power of APIs, Informatica provides customers with broad data access and manipulation. You can orchestrate, ingest, synchronize, replicate, transform, and lift and shift just about any data, residing on the cloud, on-premises, or inside or outside your firewall, at virtually any speed, with virtually any specified latency, in real-time. And it's all done with a simple API call. Plus, access to your APIs is controlled, throttled and monitored.

- **AI-Powered API Lifecycle Management:** Using the AI/machine learning (ML)-powered CLAIRE® engine, Informatica API Center enables you to automatically discover and describe your data for use in various integration scenarios. Informatica API Center also empowers organizations to identify security vulnerabilities in APIs, policies and provide recommendations for how to address them. This can help ensure that your APIs are secure and protect user data. Whether processing large bulk datasets, exposing or making API calls, or initiating mass ingestion of data, you need effective tools that can help you describe the data. CLAIRE-based metadata discovery gives your teams the intelligence required to understand and capture the value of your data.

Key Features
API Design and Implementation

Design

With Informatica API Center, you can design an API in minutes with a graphical interface that defines API behaviors. This is accomplished by defining the endpoints, data formats, authentication, authorization and other details of the API's functionality. The API design feature helps ensure that APIs are easy to use and meet the required performance and security standards. This feature helps users drive the prototyping and testing of APIs, such as creating complete API specifications, modeling data structures and generating code stubs.

Implement

The API implementation feature allows you to seamlessly implement the APIs that were created in the API design stage using Informatica API Center. The implementation feature also enables testing to create a functional API that can be used in the environment.

This feature helps generate code in various programming languages, based on the API design specifications, to help developers quickly and accurately implement the API and later test it for API functionality, performance and security. The implementation feature helps the developer take the API design and bring it to life by creating APIs using various programming languages, frameworks and tools. It also helps when creating API documentation, versioning and testing.

API Deployment, Governance and Operations

Deployment

Once an API has been implemented and tested, the API deployment feature deploys the API to various environments, (such as the cloud, on-premises or hybrid environments), and manages API gateways, load balancers and other infrastructure components. This capability allows for the easy deployment of the API to various environments, including development, testing, staging and production.

Monitoring

Informatica API Center helps organizations manage APIs, including version control and access control. It helps ensure that APIs are secure, reliable and performant, and that they are being used appropriately. It also analyzes API usage and performance, and enforces API policies, such as authentication, authorization, rate limiting and throttling.

Versioning

Informatica API Center allows easy versioning of the API. This includes the ability to make updates, rollbacks and bug fixes, as well as version control to ensure backward compatibility.

Security and Access Control

Informatica API Center provides comprehensive security and exception logging. The API administrator can quickly identify and analyze unauthorized API access attempts and policy exceptions. This capability allows you to monitor API performance, usage and errors in real time. This helps identify issues and opportunities for optimization and ensures that SLAs are being met.

Gateway

With the API gateway capability, you can deploy, activate and secure APIs, both within the organization and with your partners. This feature secures and controls access to APIs by applying policies such as rate limiting and IP filtering. The API gateway supports REST (XML and JSON) and SOAP APIs.

API Rate Limit Per Consumer

Informatica API Center allows organizations to configure API rate limit policies to control the rate at which API consumers can make requests to their APIs. This ensures that the API service remains available, responsive and performant by preventing consumers from overwhelming the API infrastructure with too many requests.

Enterprise Authentication

Informatica API Center uses powerful market standard security authentications such as OAuth 2.0. When used in conjunction with Client ID and Secrets, OAuth 2.0 extends authorization choices that include basic authentication and JSON-Web Token (JWT)-based authentication. Additionally, Informatica API Center can authenticate API calls based on customer's OAuth identity providers as well, while able to maintain similar security levels.

API Analytics

Informatica API Center offers an automated and customizable graphic analysis of usage reporting, analytics and trend reporting of integration APIs. This capability provides tools for analyzing API usage and performance data, which helps organizations understand how APIs are being used and how they can be improved.

API Registry

Informatica API Center has an API Registry, which is a central repository that stores information about various APIs. It serves as a directory or catalog of APIs that developers can use to discover, explore and consume. Published APIs are automatically registered to the API Registry, which makes it easy for you and your teams 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 Monetization

Informatica API Center enables organizations to monetize their APIs by offering them as products, creating pricing plans and managing billing and payments.
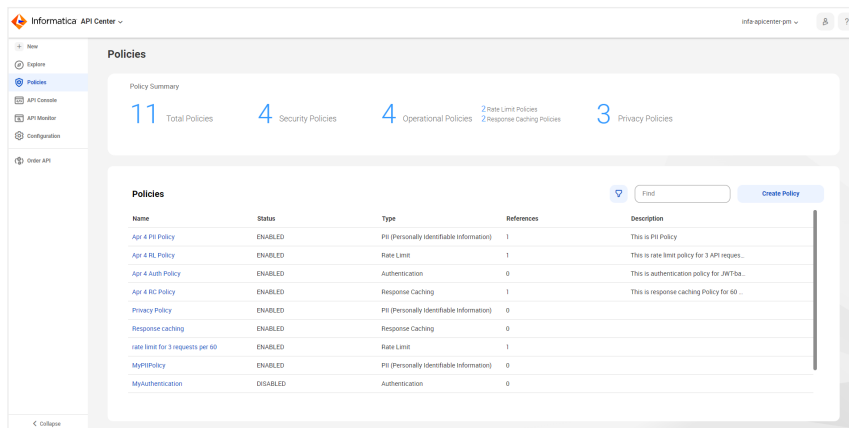
API Retirement

Informatica API Center provides capabilities for retiring or deprecating APIs that are no longer needed and managing the transition to newer versions or replacements.

Key Benefits

Apply AI-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.

Figure 1. A single view of all API policies.

Rapidly Implement Rest or SOAP APIs With Zero Coding

As a developer you can build applications, data service and dataset APIs with Informatica API Center's intuitive zero-code API design wizard. Leverage our 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 users within the enterprise, use our built-in API gateway to secure and monitor your REST and SOAP application and data APIs.
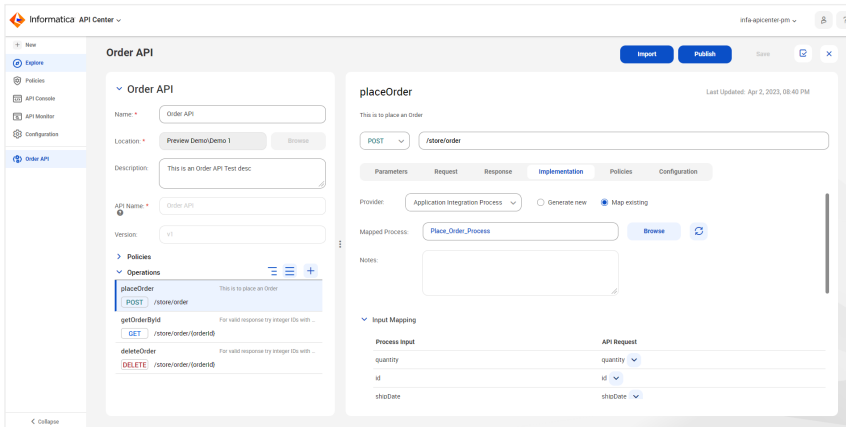

Figure 2. Intuitive API design wizard.

Get Started In Minutes With APIs at Your Fingertips

Enterprise and B2B application developers can get started in minutes with all the APIs available in a single dashboard. This dashboard also includes 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.

Build Robust, Scalable and Secure APIs

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 verify 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 enable a compact and self-contained way for securely transmitting information between API consumers and IDMC REST services. This allows users to secure their APIs with multiple authentication methods. You can also take advantage of our built-in monitors, which evaluate virtually every step of execution and data manipulation. This is invaluable in building robust and reliable APIs for developers.

Boost Developer Efficiency with Automated API Discovery and Grouping

Informatica API Center automatically lists all the available REST and SOAP web services created by your organization. To build API clients, API metadata and interface descriptions are automatically generated. Web Services Description Language (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 handle. Plus, API producers can more easily manage or revoke a consumer's access to multiple APIs.

Experience Higher Productivity with an Integrated DevOps Environment

Informatica API Center is a service of the Intelligent Data Management Cloud (IDMC), the industry's most comprehensive data management cloud that supports cloud data integration, cloud application and process integration, API lifecycle management, master data management and more. IDMC offers a tightly integrated user experience for developers, business analysts and API administrators, which helps make interactions frictionless. This common user experience enables skills to be reused across IDMC products, which significantly shortens the learning curve.

Manage the Entire API Lifecycle

API administrators and developers can easily control and monitor their APIs using Informatica API Center. It allows organizations to expose service APIs and to drive the API lifecycle, including design, 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 whitelists and blacklists. The comprehensive security-exception log allows an API administrator to quickly identify and analyze unauthorized API access attempts and policy exceptions.

Improve Visibility Through Real-Time Analytics

The analytics dashboard in Informatica API Center 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 insight.

Learn More

To learn more about Informatica API Center, please visit: **www.informatica.com/api** or start a **free 30-day trial.**

Informatica (NYSE: INFA) brings data to life by empowering businesses to realize the transformative power of their most critical assets. When properly unlocked, data becomes a living and trusted resource that is democratized across your organization, turning chaos into clarity. Through the Informatica Intelligent Data Management Cloud™, companies are breathing life into their data to drive bigger ideas, create improved processes, and reduce costs. Powered by CLAIRE®, our AI engine, it's the only cloud dedicated to managing data of any type, pattern, complexity, or workload across any location — all on a single platform. **Informatica. Where data comes to life.**