

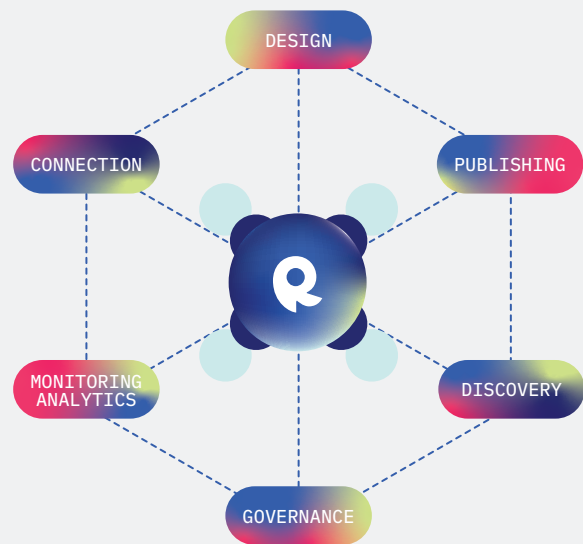
Accelerate Innovation with RapidAPI Enterprise Hub

A Next-Generation, Customizable API Hub for Government

APIs are at the heart of digital innovation. But many government agencies struggle to use APIs effectively today.

A key challenge is even knowing what APIs exist across the organization, due to organizational silos made worse by disparate infrastructure and tooling across the API development lifecycle. Compounding the issue, many API types are in use beyond REST and SOAP — adoption of GraphQL, Kafka, and gRPC is growing rapidly. APIs also span several categories, with internal, partner, and third-party APIs each bringing different requirements.

Legacy API management vendors do not address modern API requirements and just lock organizations into their technology, restricting expansion and growth. Meeting the needs of today's diverse API landscape requires a next-generation API platform - RapidAPI Enterprise Hub.



With RapidAPI Enterprise Hub, government agencies have a centralized hub for API discovery and collaboration among internal development teams providing internal APIs, consuming internal APIs, and sharing third-party API subscriptions. Additionally, RapidAPI Enterprise Hub enables creating a partner API hub with granular access controls in place, or creating an external-facing agency API hub with a modern developer experience that increases API consumption. RapidAPI Enterprise Hub integrates seamlessly

with internal systems such as your CI/CD pipeline and API gateways, supports all of your APIs including GraphQL and Kafka, works with multiple different gateways, and can be deployed across multi-cloud and hybrid environments.

RapidAPI Enterprise Hub is built on top of RapidAPI's world's largest public API hub, and includes capabilities for governance, customization, security, and integration to existing API infrastructure.

Key Benefits



Expedites Internal API Discovery: With the average agency consuming more than 300 internal APIs, RapidAPI Enterprise Hub enables developers to easily find and consume internal APIs.



Reduces Development Cost and Time: Developers can break application and API silos, unifying development around one platform to reuse existing APIs rather than duplicating them.



Enables Collaboration: Agencies can increase developer efficiency and create thriving ecosystems with a centralized hub for finding, connecting, sharing and managing APIs internally and externally with other federal partners and customers.



Integrates with Existing Infrastructure: RapidAPI Enterprise Hub creates an abstraction layer across your API environment, supporting different API gateways, API types, and multi-cloud and hybrid deployments.



Accelerates Innovation: Agencies can grant access to internal APIs to enable developers to develop prototypes and new capabilities.



Deepens Partnerships: Enable your agency to build deeper partnerships and accelerate partner onboarding with a branded API catalog to centrally expose APIs to partners and control their access to and usage of your APIs.



Governs API Consumption: RapidAPI Enterprise Hub gives organizations comprehensive governance and security capabilities for API publishing and consumption across all APIs in the agency, including role-based access control (RBAC) and federated identity.

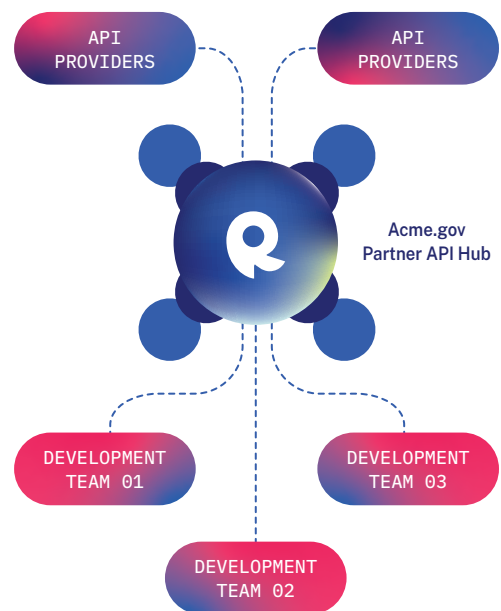
Use Cases

RapidAPI Enterprise Hub as an Internal Hub

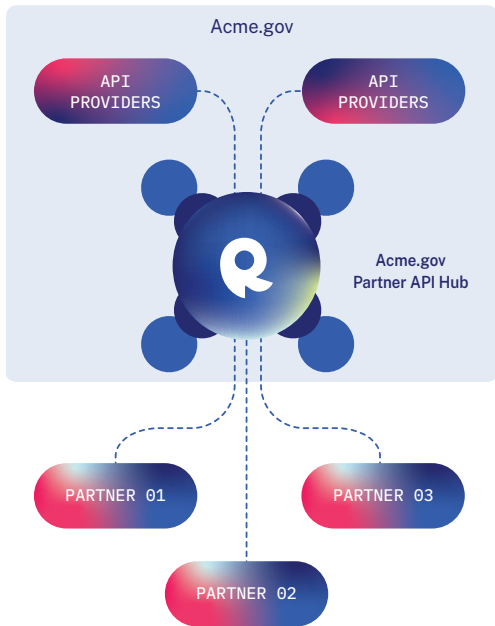
As agencies' development teams grow and split into multiple groups, they form "software silos" with each group responsible for a specific product or technology. Because each team creates their own APIs, there is little visibility into what each team is working on, resulting in code duplication, longer development cycles, and a lack of overall governance.

RapidAPI Enterprise Hub provides a centralized hub for internal collaboration among API providers and API consumers to find, manage, and connect to all APIs across the organization. The hub is branded with an agency's identity and enables organizations to create new efficiencies, accelerating the software development process.

Once set up, engineering teams can publish their APIs into the hub. RapidAPI supports all APIs, regardless of what gateways or API management tools they use. RapidAPI Enterprise Hub also provides governance capabilities that give API administrators enhanced visibility and control over API publishing and consumption.



RapidAPI Enterprise Hub As A Partner API Hub



Agencies that want to drive innovation by opening up APIs to partners can additionally use RapidAPI Enterprise Hub as a partner API hub. A partner API hub centrally exposes APIs to their federal partners in a branded catalog and enables you to control partners’ access to and usage of your APIs.

Through the partner API hub, your organization can collaborate with other agencies and organizations to create unique solutions. You will be able to deepen partnerships and reduce development cycles for partners who make use of your organization’s APIs, as well as create stickiness for your agency’s services as partners embed your APIs into the applications they build.

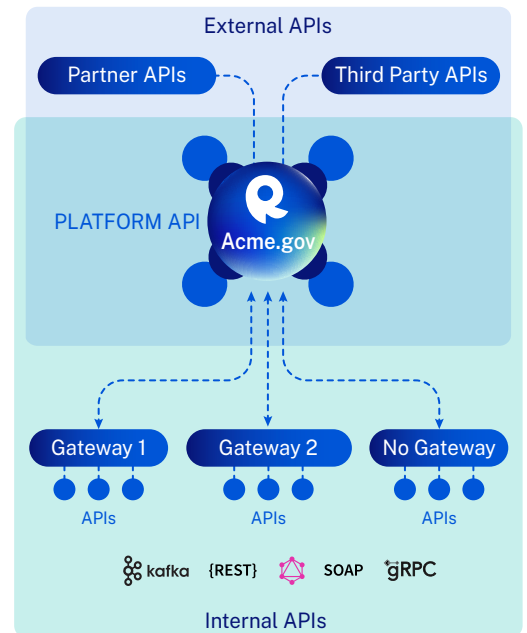
With a partner API hub in place, partners’ developers can speed up onboarding time, be assigned the appropriate access and usage controls, and monitor API analytics for all their apps from a single dashboard.

RapidAPI Enterprise Hub is an open platform that integrates with multiple different API gateways, works with any API type, and supports multi-cloud use cases. This enables you to expose APIs from anywhere in your organization to partners for consumption.

RapidAPI Enterprise Hub As a Horizontal Abstraction Layer Above Multiple API Gateways

API gateways are architectural components that sit in front of servers to perform standard functionality required to make APIs ready for real-world use such as traffic management, API key authentication, and request transformation. RapidAPI Enterprise Hub is a single consolidation layer that integrates with multiple different API gateways. RapidAPI enables your developers to use a centralized hub to find, connect, publish, and manage hundreds of APIs across multiple teams within your agency and organizations, even when each organization and development team is using a different API gateway. In addition to unifying APIs for publishing and sharing across the organization, RapidAPI also enables you to have visibility into API consumption and governance across all APIs in the organization.

RapidAPI’s integration with multiple API gateways works by programatically communicating with gateway admin APIs to provision certain objects and forward logs back to the RapidAPI Enterprise Hub. You can configure gateway connections from the RapidAPI Enterprise Hub and build and manage event-driven integrations to any API gateway with Events (Webhooks) and the Platform API. If you do not have a gateway, RapidAPI Enterprise Hub provides a lightweight gateway capability for simple proxying use cases.



RapidAPI Studio

With RapidAPI Studio, developers use the same simplified workflow to build, consume, manage, and monetize their APIs, enabling organizations to accelerate API delivery while providing developers with a streamlined and more efficient coding experience. This experience is available to developers anywhere they prefer to work, in browser, CLI, native apps, and in popular IDEs such as VS code.

Consuming APIs

Discovery

- Deep Search – full text search across API name, description, API provider username
 - Search filtering by categories, tags and Search for endpoint per name
- API Collections – Custom pages of APIs grouped by publishing team or use-case
- Homepage with previews from multiple API Collections
- Analysis of APIs based on performance metrics and popularity
- Discussion forums to facilitate collaboration between developers using an API
- Testing/Evaluation – view documentation and test APIs easily in browser
- API Mocking

Integration

- A view of all API endpoints & their parameters
- Add third-party API subscriptions from the public RapidAPI Hub to your RapidAPI Enterprise Hub
- Single application key for all APIs
- Comprehensive support for OpenAPI spec including schema details and examples for requests and responses
- Support for code snippets to easily embed API connection into application: C, C#, Go, Java, Javascript, Node.js, Objective-C, OCaml, PHP, Powershell, Python, RapidQL, Ruby, Shell, Swift
- Platform API to programmatically integrate with multiple third-party API gateways
- RapidAPI Lightweight API Gateway for simple proxying use cases

API Consumption

- Developer dashboard for analytics and quick insights across all APIs consumed by team
- Charts for daily active users, new users, and total users, and total users over selected time periods
- Analytics (requests, errors, latency, group by individual applications) per API or per API endpoint
- Access control – open access, by subscription, requested access, invitation from provider

Publishing APIs

Development

- OpenAPI specification and upload/import
- Postman Collection Import
- HTTP client – visual editor and HTTP toolset
- Team Collection & Collaboration
- A set of extensions with the ability to add your own
- Support for multiple API environments

Publishing

- Dev experience features: spotlight on collections page, tutorials/FAQs per API
- Comprehensive Open API Spec support (2.0 or 3.0)
- CI/CD integration
- Support for all API Types: REST, SOAP, GraphQL, Kafka, Webhooks, WebSocket APIs, gRPC APIs
- Simple UI to define API
- API authentication (per application and additional authentication capabilities)

Billing & Monetization

- Manage billing information and API subscription and consumption data
- Plans that can be defined as free, freemium, or paid (with quotas and hard/soft limits)
- Monthly subscription or pay-per-use plans
- Private plans that are available by invite only
- Automatic charging and payment processing out of the box
- Enforcement of DocuSign esignature for contracts

API Governance

Monitoring & Analytics

- Dashboard for analytics and quick insight across all APIs consumed by the team
- Analytics (requests, errors, latency) grouped by individual applications per API and API Endpoint
- Ability to filter Analytics by API and API Endpoints
- Access to granular API logs for easier debugging
- Set up alerts for API anomalies

Management & Control

- Role-based access controls and federated identity
- Track, analyze and secure API access, publishing, and provisioning
- Configure API as public, private, semi-private
- Grant API editing, viewing, and access privileges by team
- View API usage
- Define approval processes for publishing APIs and consuming APIs
- Provide API key per user application
- View audit trails across all team and organization activity
- API Versioning
- Block or Unblock specific users from API access
- Invite specific users to private plans
- Create plans restricting access to specific endpoints
- Single Sign On (SSO) integration and user provisioning via UI CSV import, GitHub
- Transform API requests/responses, authenticate, and rate limit with the RapidAPI Lightweight API Gateway

Security

- Integrate to any 3rd party identity provider (IdP) to support authentication with any identity layer including OpenID Connect, OAuth 2.0, and SAML
- TLS
- Certificate Management
- Schema validation
- Proxy Secret Key
- Fraud detection through third-party provider
- Threat Protection
- Rate Limiting
- Two factor authentication (2FA)
- API key rotation

Other

Deployment

- Multi-tenant Cloud via AWS
- Managed by RapidAPI

Customization

- Customizable hub experience
- Theming – fully customizable UI including: logo, style, images, messaging, colors, fonts, login methods, and layouts
- Extend system through API integrations and plugins
- Dark mode option
- Custom Collections



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RapidAPI empowers millions of developers to build modern software with a next-generation API platform including the world's largest API hub and fully-integrated solutions for API collaboration, discovery, testing, publishing, consumption, and more.