



SOLUTION BRIEF • CA API MANAGEMENT SAAS



Unleash application innovation while minimizing risk with CA API Management SaaS

In the application economy, application development prowess and business success are growing inextricably intertwined. Development teams can speed application innovation by fully leveraging application programming interfaces (APIs) with CA API Management SaaS. Offered via a pay-as-you-go delivery model, CA API Management SaaS is optimized for Amazon Web Services (AWS) deployments, enabling organizations to realize maximum business value from APIs with minimal cost and effort.

Executive Summary

Challenge

To compete in the application economy, development teams need to speed innovation and expand support for more use cases and devices. APIs are an increasingly vital asset to help meet these objectives—but many organizations encounter significant obstacles that prohibit them from capitalizing on the potential benefits of APIs.

Opportunity

CA API Management SaaS equips organizations with capabilities for managing APIs across the lifecycle, controlling users and access and fostering optimal API usage. The solution offers a SaaS delivery model that is optimized for deployment in Amazon Web Services (AWS) environments.

Benefits

CA API Management SaaS enables organizations to get the sophisticated capabilities they need to fully harness APIs and fuel breakthroughs in application development speed, scale and innovation—all through a delivery model that minimizes up-front cost and ongoing effort.

The Challenge: Obstacles to Capitalizing on the API Opportunity

Applications are becoming increasingly key to establishing competitive differentiation, delivering a winning customer experience and maximizing staff productivity—and, as a result, so is the performance of application development and delivery teams. These teams must deliver innovative software faster; support a diverse mix of applications, devices and platforms; and meet higher expectations for quality and usability.

Internal development and operations teams can't continue to employ the same traditional approaches and meet these expanding demands. That's why APIs are emerging as such an integral piece of the application development puzzle. By leveraging APIs and effective API management, organizations can:

- **Unleash innovation.** With APIs, organizations can leverage applications and data more fully to expand reach, boost revenue and improve customer retention. By exposing APIs to internal and external groups, organizations can foster the growth of active developer communities and dramatically expand their capabilities and business opportunities.
- **Boost agility.** Businesses can move away from closed, monolithic operational approaches and become more open organizations that are fueled by agile applications. In this way, even larger businesses can become more nimble and adapt as quickly as smaller market entrants.

In spite of the tremendous opportunities afforded by APIs, many organizations have failed to capitalize because they're struggling to address a number of significant concerns:

- **Security.** How do you ensure APIs don't expose the business to abuse or attack?
- **Availability.** How do you ensure API-based services are continuously available to applications and users, particularly as the use of APIs begins to grow?
- **Management.** How do you govern access and usage in an efficient, consistent way?
- **Cost and administrative efficiency.** How do you address all the concerns above without making massive investments in staffing and infrastructure?

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The Solution: CA API Management SaaS

CA API Management SaaS is a turnkey solution for managing development and APIs across their lifecycle. Available via AWS, it enables customers to harness advanced API management capabilities with minimal up-front cost and ongoing effort. Customers can securely expose APIs and equip developers with all the resources they need to leverage these APIs in their applications.

Key features

CA API Management offers the following key features:

- **Optimized for AWS.** CA API Management SaaS has been built from the ground up to provide multi-tenant capabilities. It also leverages the AWS infrastructure to provide seamless scalability and failover across multiple availability zones. Available in all Amazon Elastic Compute Cloud (Amazon EC2) locations, CA API Management SaaS features a continuous integration model that enables unobtrusive ongoing updates.
- **Ease of use.** The solution features a clean, responsive user interface that can be used with traditional or tablet-based browsers. Organizations can equip developers with web-based developer tools, interactive API documentation and automatically generated code samples.
- **Extensible, sophisticated infrastructure.** The solution also features CA API Gateway, which delivers sophisticated backend functionality. It supports long-term growth and extensibility and enables integration with on-premises systems, customization of API management functionality and development of new business rules.

Key capabilities

CA API Management SaaS delivers extensive capabilities:

User and organization management

Create and manage user accounts and onboard developer and partner organizations. With CA API Management SaaS, you can get granular account management capabilities, enabling administrators to create tiered plans that grant varying access levels to different developer types. You can also establish and enforce quotas and rate limits.

Application and API key management

Create and manage applications and API keys for developers. Permissions can be granted so developers can assign API keys when creating their own applications. You can also automatically create interactive documentation when APIs are published.

API lifecycle management

Manage APIs across their lifecycle, from design and coding to testing and deployment. CA API Management SaaS supports various workflows, such as enabling content to be offered in staging mode and then pushed live when approved for publication. Comprehensive API publication and management capabilities means administrators can use pre-defined templates that streamline the process of publishing, assigning versions and setting access controls for APIs. Teams can also create their own templates, and users can manage policy metadata, restrict change contributions and accommodate approvals and rollbacks.

API governance

Extensive API governance capabilities address administrators' requirements, such as key management, process orchestration and usage visibility. Users can establish terms and conditions for exposing APIs, and the solution's flexibility helps administrators adapt their controls to their organization's specific SLAs, requirements and policies.

Developer enablement and community building

Ensure that your APIs can be easily discovered, accessed and used by developers. The CA API Management SaaS portal provides a single, self-service point of interaction that enables users to register, browse available APIs, request API access keys and download sample code. An API catalog dynamically lists APIs available to a given user based on permissions and access controls that have been established. Once APIs have been published, developers and administrators can also gain visibility into API usage and other KPIs. Developers can share best practices through a community forum.

"Manage APIs across their lifecycle, from design and coding to testing and deployment."

Security

Get the visibility and controls that administrators need to manage the security of their APIs, with robust, flexible access controls and the ability to accept different kinds of credentials and issue credentials to developers. CA API Management SaaS supports a range of authorization schemes, including identity federation standards like OAuth and SAML. Administrators can get fine-grained control over what data gets exposed so they can keep sensitive information confidential. The solution helps to secure transmissions against tampering and also helps to ensure the integrity of APIs and data, offering controls that help guard APIs against attacks and misuse.

Analytics and reporting

Administrators can get the visibility and insights needed to effectively monitor and manage API implementations. Reports provide insights into the most popular APIs, developers and applications. When issues arise, administrators can get the timely, at-a-glance insights they need to quickly pinpoint and address the cause. CA API Management SaaS also offers flexible custom report creation capabilities as well as a variety of pre-packaged reports, including summary reports that detail API usage and responsiveness and track how developers are using APIs against quota.

The Benefit: Maximizing the API Payoff While Minimizing Cost and Effort

By deploying CA API Management SaaS in their AWS environments, organizations can exploit the advantages of APIs while minimizing the cost and effort associated with managing them. With CA API Management SaaS, businesses can leverage advanced capabilities that enable effective, efficient API management and gain maximum business value from API-enabled innovation. The SaaS-based delivery model also delivers these benefits:

- **Simplicity.** Customers don't have any API management software to install, configure, deploy or maintain.
- **Fast time to value.** Customers can sign up and immediately start publishing APIs and building API-powered applications.
- **Cost effectiveness.** CA API Management SaaS doesn't require any up-front infrastructure investments or deployment costs. Further, organizations can benefit from paying ongoing, predictable operating expenses, rather than incurring massive capital expenditures.

Conclusion

APIs are an increasingly integral component to the success of today's development organizations. However, it is only through comprehensive, effective API management that organizations can fully leverage API's advantages, while also maximizing security and control. CA API Management SaaS provides organizations with the robust, comprehensive and flexible controls they need to realize optimal benefits through APIs—with minimal cost and effort.

To learn more or request a trial, visit ca.com/api.

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