DATA SHEET

Full API Lifecycle Management

The industry's leading products for enterprise-scale API management.

At a Glance

Increasingly, enterprises are opening their data and applications to partners, developers, mobile apps and cloud services. APIs provide a standardized way to open up information assets across the web, mobile devices, Service Oriented Architecture (SOA) and the cloud. However, to make API information sharing safe, reliable and cost-effective, enterprises must deal with critical security, performance management and data adaptation challenges.

CA API Management combines advanced functionality for back-end integration, mobile optimization, cloud orchestration and developer management. It is unique in its ability to address the full breadth of enterprise API management challenges.

Key Benefits/Results

CA API Management provides solutions for:

- **Developer access.** Empower internal and external developers to leverage your APIs.
- **Mobile access.** Securely connect the enterprise with mobile apps and smart devices.
- **Partner access.** Share information and services across organizational boundaries.
- **Cloud access.** Remove barriers to adoption of SaaS applications and cloud infrastructure.
- **Data access.** Produce a complete, working system – everything you need for your applications, in minutes: data integration, application logic, and a robust API.

Critical Differentiators

The following five key factors are key differentiators in CA API Management:

Ease of Use: CA API Management offers a visual user interface to instantly create APIs or setup complex security policies, and can easily connect SOA, ESB, and legacy applications.

Scale: Achieve high performance and scaling with throttling, prioritization, caching, routing, and can dynamically scale up or down as needed.

Security: Protects against threats, OWASP vulnerabilities and controls access with Single Sign-On and identity management, providing end-to-end security for apps, mobile, and IoT.

Flexibility: Can be implemented as a SaaS, on-premises or as a hybrid solution, and is available in a wide range of form factors ranging across hardware, software, virtual, and containers such as Docker.

Breadth: Can enable the entire API lifecycle for mobile and IoT. and builds scalable connections to cloud solutions and automatically creates data APIs with live business logic.

Full API Lifecycle Management

The role of API management has expanded to cover a complete lifecycle that governs the creation, deployment, promotion and optimization of APIs on the provisioning side, as well as their discovery, acquisition and consumption by app developers and other API consumers.

Provisioning. Enterprises are responsible for a continuous sequence of API strategy, design, creation, orchestration, protection, testing, deployment, promotion, and monitoring. Full lifecycle API management enables each of these steps with functionality that also addresses security, scalability, and manageability concerns.

Consumption. The provisioning cycle meshes with a parallel one for the developers who leverage APIs to design, build, launch, and iterate their apps. Full lifecycle API management provides them with a reliable mobile data infrastructure, improved onboarding, and additional capabilities that accelerate, streamline, and improve mobile and IoT development.

Functional coverage in all of these areas is important when evaluating API management because a good solution will offer effective tools with clear benefits for all API stakeholders – enterprise architects, security specialists, product managers, app developers, and business executives. Named as a leader in multiple analyst reports, CA API Management offers the industry's leading products that accelerate and enable the entire API lifecycle.

Solution Overview

CA API Management includes:

- **CA API Gateway.** Deploy the core functionality needed for enterprise-scale API security and management. Available in multiple editions to meet your specific needs.
- **CA Mobile API Gateway.** The power of the CA API Gateway with additional enhancements to power your mobile solution. Includes an SDK that enables enterprise-grade SSO (with integration with OAuth and OpenID Connect) and geo-location support, as well as security management of mobile devices—including Samsung Knox integration.
  - CA Mobile App Services. This add-on to CA Mobile API Gateway enables developers to write reactive apps that can use real-time propagation of events and data, create ad hoc groups to enhance collaboration and weave security into the app for data at rest and in motion.
- **CA API Developer Portal**. A centralized portal that allows enterprises to engage, onboard, educate, and manage internal or external developers, publish APIs for consumption (e.g., documentation, code examples and grouping) and provide full analytics on API usage/performance.
- **CA Live API Creator.** A comprehensive platform for API and application development and execution.

CA API Gateways	
API Essentials	▪ Implement enterprise-grade threat protection and access control for APIs ▪ Simplify the process of API composition, orchestration and lifecycle/performance management ▪ Track API performance and generate an audit trail of all service interactions
SOA Enterprise	▪ Enable secure SOA integration, partner connectivity and cross-departmental information sharing ▪ Compose, edit, customize and enforce SOA Governance policies from a single, central location ▪ Manage complex SOA architectures that span enterprise data centers and the cloud
Mobile Gateway	▪ Enforce access control, firewalling and data security for mobile apps that access enterprise resources ▪ Adapt and optimize complex enterprise services for bandwidth-light mobile use cases ▪ Securely integrate enterprise apps with the cloud, social networks and mobile notification services
CA API Management SaaS	▪ Deploy CA API Gateway in the cloud or on-premises ▪ Deploy CA API Developer Portal (below) in the cloud ▪ Supports CA Mobile API Gateway on-premises deployment
CA API Developer Portal	
Developer Onboarding	▪ Support for both individual developers and larger partner organizations ▪ Ability to define registrations as being automatically accepted or subject to approval ▪ Support for both self-signup and managed enrollment ▪ Can be deployed on-premises or in the cloud
Developer Resources	▪ Discussion and support forums, integrated messaging etc. ▪ API documentation, API explorer, API status, application reports, etc.
Reporting and Analytic	▪ API reports that track and meter API usage, successes versus errors, latency, etc. ▪ Application reports that show latency, usage, successes versus errors, etc.
Content Management	▪ Ability to define the look, feel, brand and content of the Portal ▪ Support for both staging and production environments, as well as a content approval/publication/rollback processes, streamlining change management
CA Live API Creator	
Create	▪ Instant enterprise APIs from data sources and declarative logic ▪ Ten times faster than code and up to 40 times more concise
Integrate	▪ Data from SQL, NoSQL and Salesforce data sources ▪ Fine-grained security, including integration with CA API Gateway ▪ Flexibly deploy and scale to existing architectures
Execute	▪ Business policies using Reactive Logic ▪ Event processing and JavaScript™ immediate interactive data exploration ▪ Support for top-down, bottom-up and code first programming models
OAuth Toolkit	
Specification	▪ Supports OAuth 1, OAuth 2, and OpenID Connect ▪ Provides sample OAuth implementations that can be configured to specific needs
Security Token Service	
Specification	▪ All Gateways include a built-in STS that can issue and validate OAuth and SAML access tokens, optionally with HMAC or RSA signature methods and SHA-1, SHA-256 or SHA-512 encryption
Supported Standards	
XML, JSON, SOAP, REST, PCI-DSS, AJAX, XPath, XSLT, WSDL, XML Schema, LDAP, RADIUS, SAML, XACML, OAuth 1.0a/2.0, PKCS, Kerberos, X.509 Certificates, FIPS 140-2, XML Signature, XML Encryption, SSL/TLS, SNMP, SMTP, POP3, IMAP4, HTTP(S), JMS, MQ Series, Tibco EMS, Raw TCP, FTP(S), WS-Security, WSTrust, WS-Federation, WS-SecureExchange, WSIL, WS-I, WS-Addressing, WS-Policy, SSecureConversation, WS-MetadataExchange, WS-SecurityPolicy, WSPolicyAttachment,WS-I BSP, UDDI, WSRR, MTOM, IPv6, WCF	

For more information about CA API Management, please visit **ca.com/api**

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