

CA Mobile API Gateway

At A Glance

CA Mobile API Gateway exposes mobile backend services and enterprise assets as secure, scalable REST APIs. It enables developers to create five-star apps that consume enterprise data, integrate with cloud services and leverage agile infrastructure to scale for mobile and the Internet of Things (IoT). With security from the app to the API, CA Mobile API Gateway provides a central point for controlling policies that secure and manage access to assets exposed via APIs and open-source software development kits (SDKs). Robust security features such as FIDO integration support next-gen use cases for mobile and IoT. CA Mobile API Gateway delivers advanced identity and authorization management for three-way trust between users, apps and devices.

KEY BENEFITS

- **Enterprise architects:** Bridge application silos and extend backend services into scalable mobile and IoT deployments.
- **Mobile developers:** Quickly build secure and better performing front-end applications by discovering and consuming APIs and SDKs.
- **Application owners:** Go to market faster with best-in-class APIs that extend product ecosystems.

KEY FEATURES

Speed security for mobile and IoT.

Secure from end-to-end with enterprise-grade PKI security and encryption in the app and API fabric, mutual SSL, OAuth 2.0, PKCE and OpenID connect.

Flexible authentication for the "triangle of trust." Authorize access with enterprise identities across users, apps and devices. FIDO biometric integration, single sign-on (SSO), token exchange, social login, device registration and proximity login provide robust identity management.

Evolve from legacy to next-gen.

Integrate mobile backend services, legacy infrastructure, enterprise data and third-party resources into scalable REST APIs built for mobile and IoT.

Five-star app features, faster. Speed app development with standards-based, open source SDKs and APIs, client-side libraries, and documentation.

Business Challenges

Mobile and IoT experiences require app development speeds that cannot be accomplished by building new applications or features from the ground-up. **IoT demands near real-time** propagation of events and data, and the re-use of data and interfaces through APIs.

Data sharing and data integration are slowed by silos. Enterprises are increasingly seeking to **fuel collaboration and enable developers** with the resources to succeed.

Data exposed via APIs is vulnerable to breaches or misuse. Poorly managed security can inhibit application performance or slow development. Enterprises must **balance military-grade security with delivering a positive user experience.**

Through APIs, modern enterprises are attempting to **scale for IoT, while remaining flexible, agile and secure.** Without an API management strategy, enterprises can fall behind.

Critical Differentiators

Secure mobile and IoT investments within your enterprise technology fleet

From the device to the app to the API, CA Mobile API Gateway offers robust security for end-to-end protection of data at rest and in motion.

Enable technological and developer collaboration

Integrate existing mobile backend services and infrastructure with data exposed via SDKs and APIs to broaden developer and partner ecosystems.

Dynamically create and modify secure containers

Build and deploy APIs within a microservices architecture to scale with mobile and IoT investments while integrating security throughout the component lifecycle.

Bridge your mobile devices to the enterprise IAM

Manage and authorize secure, real-time data exposure for mobile and IoT applications that comply with enterprise-wide identity and access management policies.

Solution Overview

CA Mobile API Gateway is a premium-level, lightweight and low-latency API gateway that supports mobile app architecture and development initiatives through integrated security and management controls.

Key technical capabilities include:

Ready-to-go infrastructure

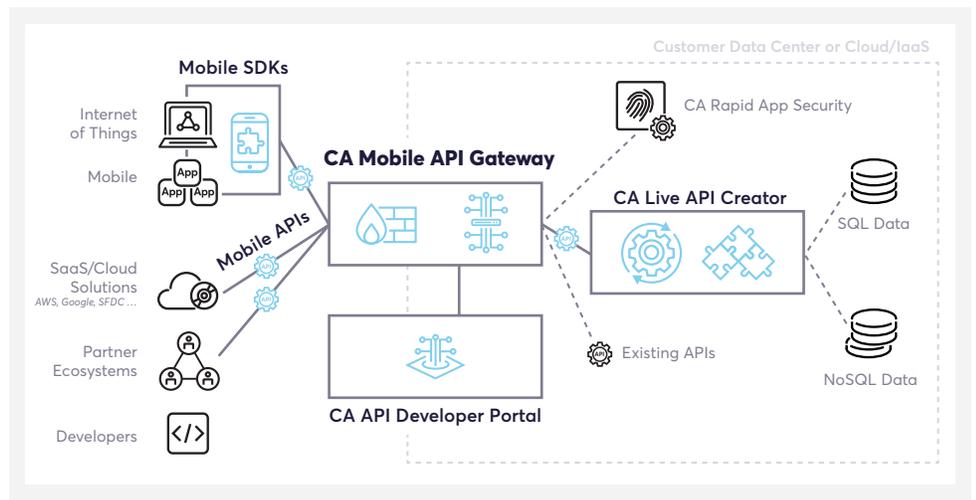
- Open source mobile SDKs for Android, iOS, Cordova, JavaScript
- MQTT and pub/sub infrastructure for real-time, IoT-friendly apps

Identity management

- Standards-based security flows based on OAuth 2.0, SCIM 2.0, OpenID Connect, PKI, SAML, X.509, LDAP, OS security integration (e.g., fingerprint sensors), one-time passwords, access tokens
- Biometric authentication through FIDO integration, Samsung SDS Nexsign
- Multiuser support and session sharing (QRC, NFC, BLE), geolocation, and social login
- Dynamic configuration of clients for simplified app enrollment

Five-star app features

- Compose and orchestrate REST APIs from any legacy backend API with full control of app and service configurations
- App messaging, user directories, collaboration features, and user and group management accessible through SDKs and SCIM 2.0 APIs



Experience optimization

- Throttle API usage, cache/aggregate API responses and pre-fetch hypermedia content to decrease backend load
- JSON conversion and dynamic message compression

Military-grade security

- Integration with CA Rapid App Security for comprehensive authentication and app security
- Validate HTTP parameters, REST query/POST parameters, JSON data structures, XML schemas
- Protect against cross-site scripting (XSS), SQL injection, denial of service (DoS) attacks, policy violations
- Detect sensitive/confidential content with subsequent scrubbing, rejection or redaction of messages

Developer enablement

- Seamless and simple access for developers with all open source code available on GitHub
- Client-side libraries, code and documentation to simplify implementation of SSO and mutual SSL for secure API access

For more information, please visit ca.com/mobileapi

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