# Mobile SDK with CA Mobile API Gateway



## At a Glance

The Mobile Software Development Kit (SDK) provided with the CA Mobile API Gateway allows developers to embed security directly into a new mobile app. The SDK includes a client library that handles authentication and authorization of users, apps and device for mobile apps that access enterprise APIs and data. Existing enterprise identity management infrastructure is supported to provide unified access across multiple channels: web, mobile and API channels. The SDK is supported on Apple iOS and Google Android™ operating systems, development frameworks such as Adobe PhoneGap/Cordova and Samsung KNOX.

#### Key Benefits/Results

- End-to-end Security. Secure access from the client app to the backend API
- Convenient App Access. Login once and gain access to all mobile apps with the same domain credentials
- Accelerate App Development. Use simple and easy-to-use client side library to embed standardized security once
- Increase Consumer App Adoption.
   Security that maintains convenience and delights customers

### **Key Features**

- Mobile App SSO. Deliver a convenient app login UX across web, native hybrid apps
- Cross Device SSO. Deliver a seamless session sharing UX between different devices
- Social Login. Accelerate registration & onboarding through social network integration
- Geolocation Access Control. Control access by correlating GPS or network service data with user, device and app attributes
- Mobile SSO Reference App. SDK centrally organizes mobile apps and delivers Web, native and hybrid SSO
- Flexible Identity Standards. OAuth 2.0,
   OpenID Connect and SAML supported
- Dynamic App Credential Provisioning.
   OAuth allows an app to dynamically exchange original app credentials with new ones.
- **Mutual SSL.** Protect data in-motion from the mobile app to the backend API

## **Business Challenges**

As the app economy introduces new digital opportunities, sensitive services are exposed to mobile apps, cloud platforms and IoT devices forcing the new open enterprise to accept a certain level of additional risk. The business is challenged to mitigate this risk without sacrificing opportunity or negatively impacting the mobile experience. Whether it is shutting services off at the perimeter, implementing stringent authentication controls, requiring onerous provisioning steps or forcing developers to educate themselves on the latest security standards, the user and developer experience can be impacted enough where app release cycles and consumer adoption are inhibited.

## Solution Overview

The Mobile SDK with the CA Mobile API Gateway provides an end-to-end mobile security solution from the client to the backend.

The SDK offers developers a full featured mobile app access solution that automates device registration while delivering convenient app access through social login, SSO and geolocation access control. The CA Mobile API Gateway also provides fine-grained access control correlating user, app and device attributes to API access control.

The SDK also provides developers a framework for sharing a SSO session across apps running on multiple devices by enabling session transfer via proximity technologies such as QR codes. With this an end user can seamlessly move between apps on different devices without having to re-authenticate with domain credentials.

The SDK is a standards-based and proven mobile app security solution. The SDK uses OAuth 2.0, OpenID™ Connect, JSON Web Token (JWT) and public key infrastructure (PKI) standards. PKI provisioning provides secure transfer, storage and pinning of certificates, adding additional trust to authentication verification. Communication is secured through CA Mobile API Gateway via mutual secure sockets layer (SSL) configuration.

CA Mobile API Gateway is lightweight, low-latency mobile middleware with integrated security and management controls designed to help enterprises safely and reliably expose internal assets to developers and remote apps as mobile application program interfaces (APIs).

The SDK is supported on Adobe PhoneGap developer framework, Android and iOS operating system and Samsung KNOX Workspace.

## Critical Differentiators

End-to-end Mobile Security CA provides a unique client to backend API security solution while most API Management vendors only focus on externalizing backend services. The CA Mobile API Gateway's SDK integrates with native apps, providing better API integration, mobile SSO, improved user experience and better overall security

Best-in-class Security Most identity service providers focus on delivering mobile app access through the browser. Although this works in some cases, a browser redirect can be vulnerable. In addition, switching a browser in front of a native app is a poor experience on most platforms. And while a browser-centric solution may be acceptable if no local data storage is required, as enterprise data must be externalized an API gateway will be required. The CA Mobile API Gateway through the SDK performs an authentication handshake that secures the ongoing API calls to the backend with a cert (mutual SSL) that is configured to deliver a very secure end-to-end mobile app solution.

App Security that Delights The SDK focuses on security while providing a user experience (UX) that delights. Users avoid tiring provisioning steps, registration forms and repetitive app logins. While developers are provided the tools to develop secure apps while accelerating the app release cycle.

Mobile SSO Across Web, Native and Hybrid Apps

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## Related Products/Solutions

- CA Single Sign-On. Delivers web SSO
- CA Mobile API Gateway. Externalizes mobile-friendly APIs for mobile apps
- CA API Developer Portal. Enables API publishers to create and manage APIs for developer communities
- CA Mobile Application Management.
   Delivers and securely manages
   employee apps

## For more information, please visit www.ca.com/api

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