



caWorld®'17

DEVOPS: APIS & MICROSERVICES

Mobile Payment Security With CA Rapid App Security

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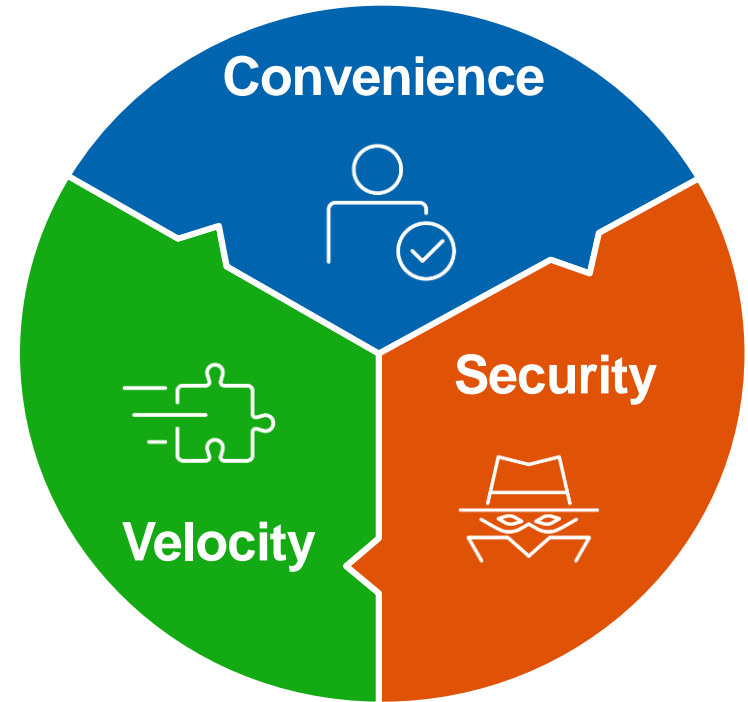
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The Challenges to Software Development in the Application Economy

How do I create:

- A native security experience that is convenient, frictionless, and makes it fast to add to new security modalities to apps
- Secure enough to meet audits & compliance requirements
- Provides “developer velocity”: maximum value without high costs to develop, operate, or support?

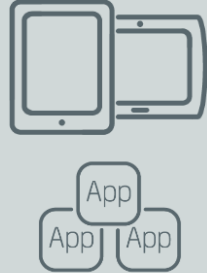


What if You Could...

Authenticate
Users via Wide
Array of
Credentials



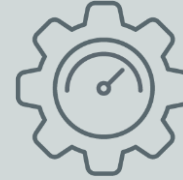
Connecting from
Mobile Devices
& Mobile Apps



Securing the
Device to Server
Communications



Transparently
Analyze Risk
based on
Contextual Data



Initiate Step-up
Authentication
when Risk is
High



From a Single Solution?

Introducing CA Rapid App Security

A comprehensive authentication platform for the application economy - mobile, web, IoT

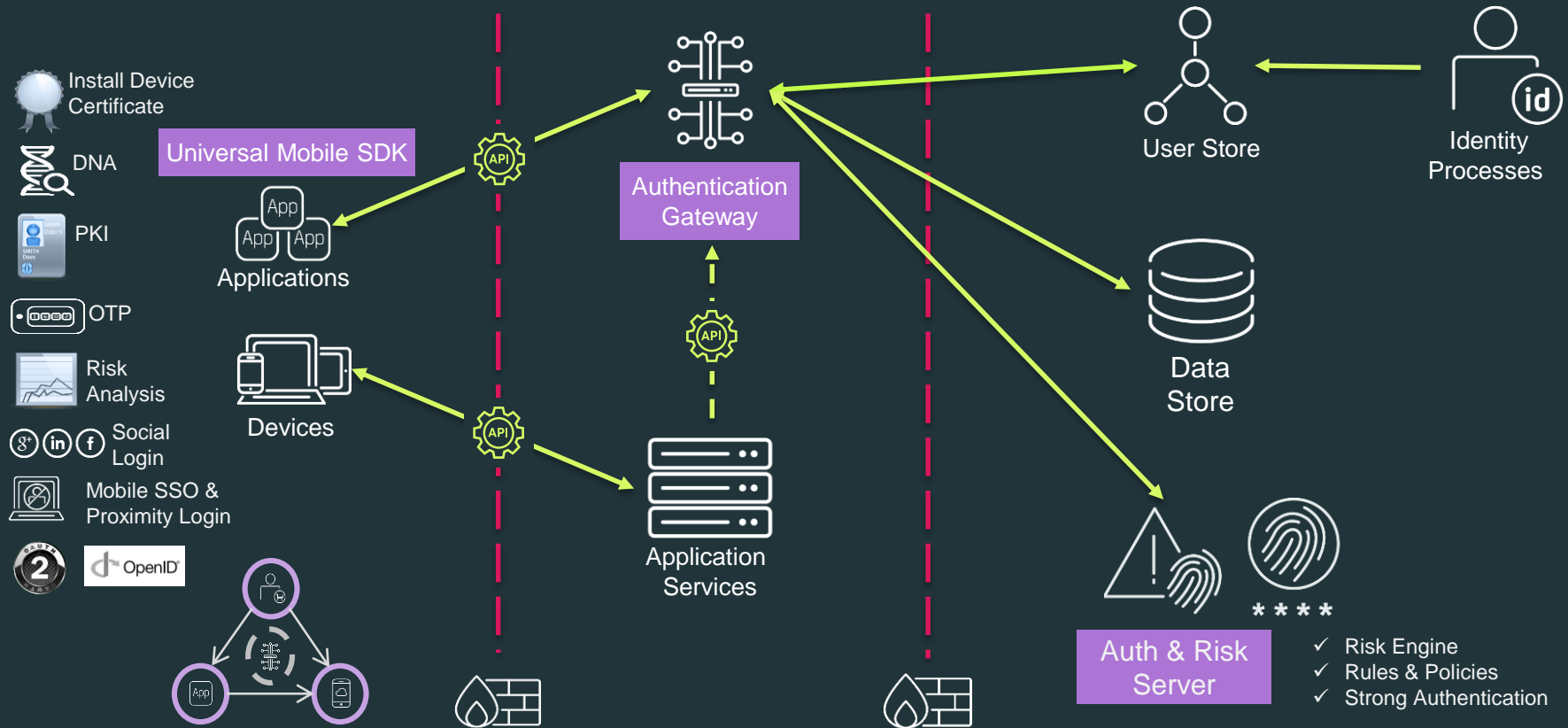
- Fraud prevention in real-time
- Robust authentication methods inclusive of contextual authentication
- Faster & convenient means to secure Apps
- Strengthen consumer confidence and enhance brand value by creating a simplified native security experience

Built on CA Mobile API Gateway and CA Advanced Authentication

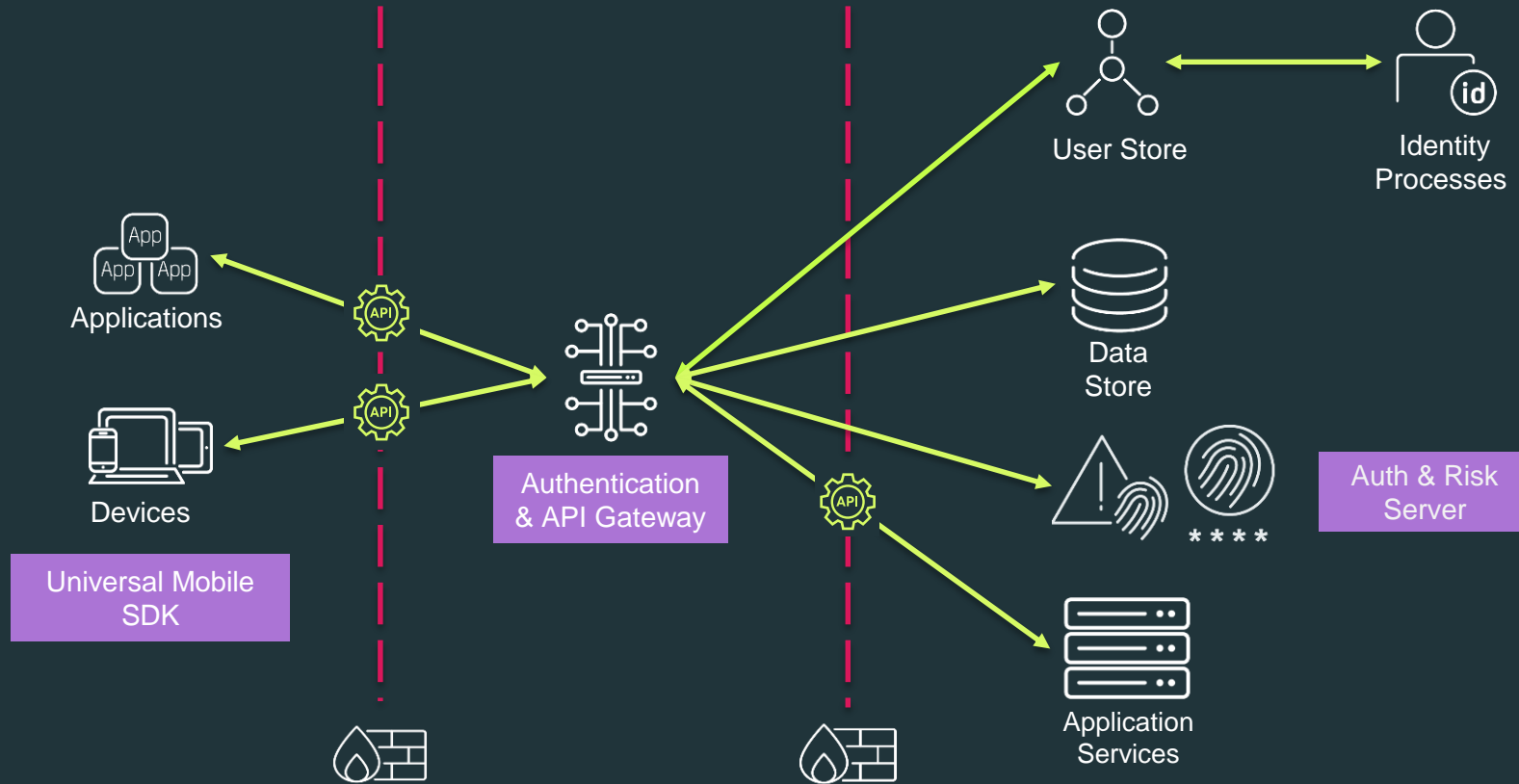
CA Rapid App Security Component Capabilities

- CA Mobile API Gateway
 - Provides support for OAuth, OpenID Connect, Mutual SSL, Touch ID, Cross-device sign-on
- Strong Auth & Risk Auth Server (CA Advanced Authentication)
 - Provides management and validation of CA AuthID credential, and conducts risk analysis with step-up authentication initiation when needed
- Universal SDK
 - Provides streamlined developer experience across MAG and Advance Authentication solution; single, unified SDK to simplify app security for the developer

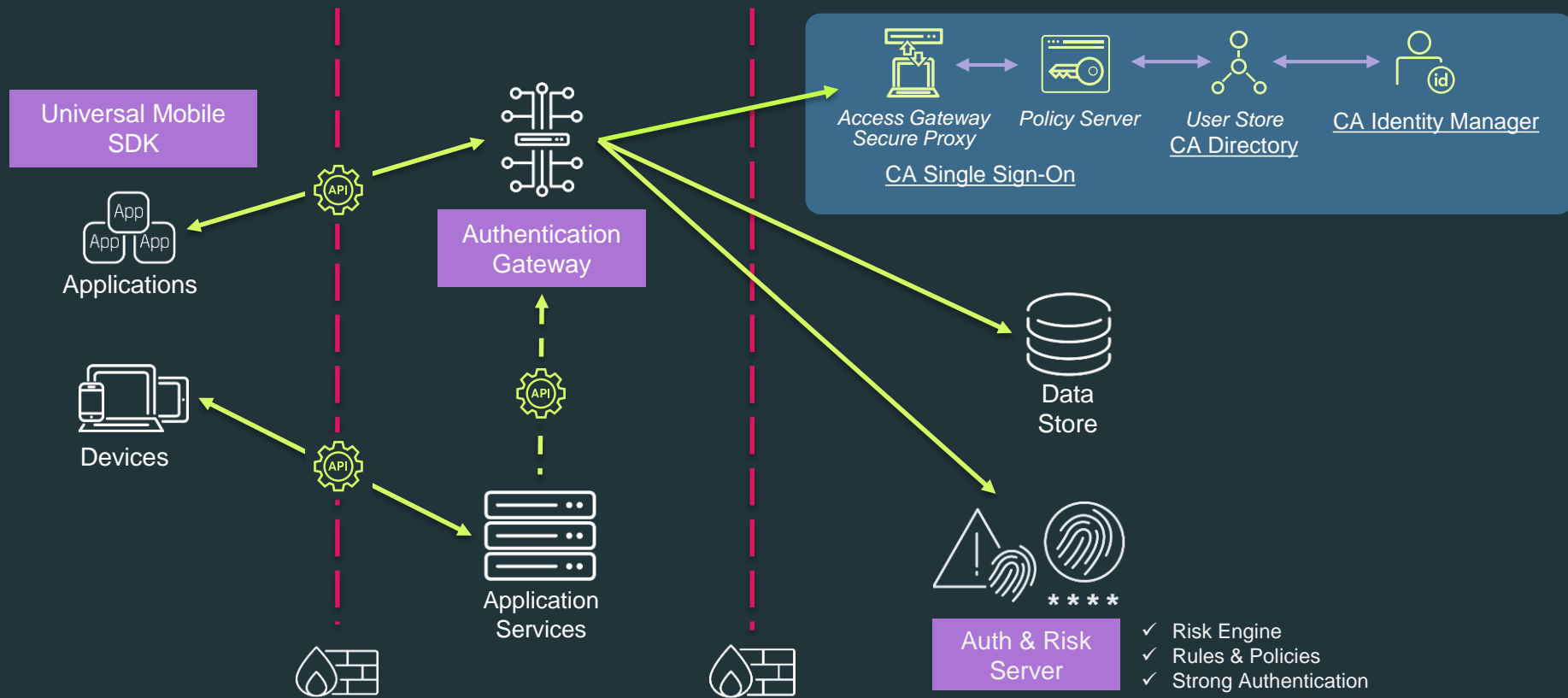
CA Rapid App Security Solution



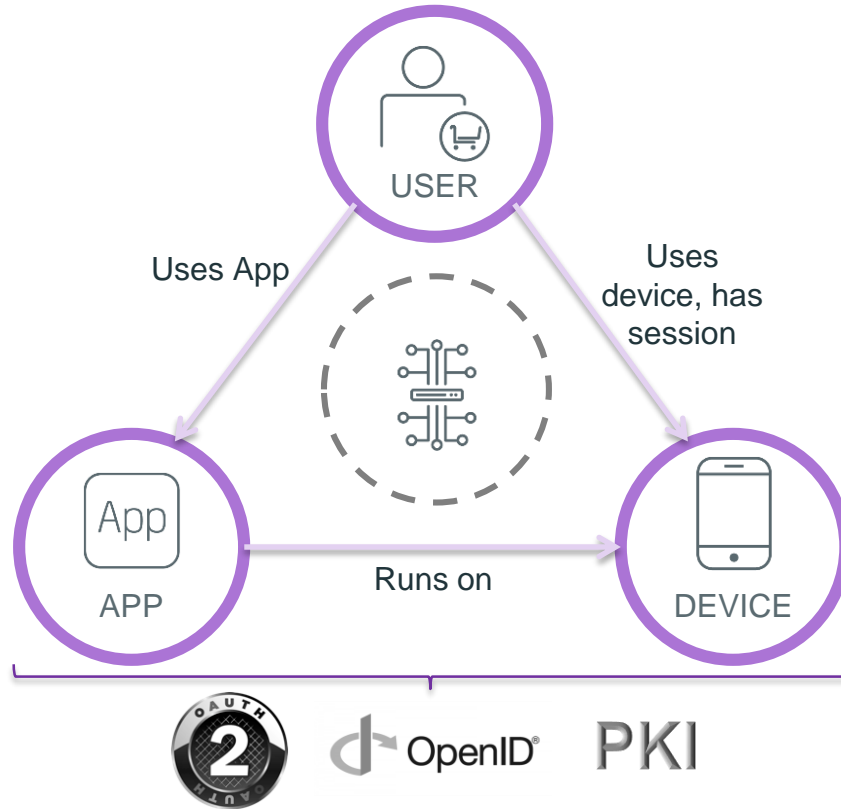
Additionally... Authentication and API Security



Rapid App Security With CA Security Solutions



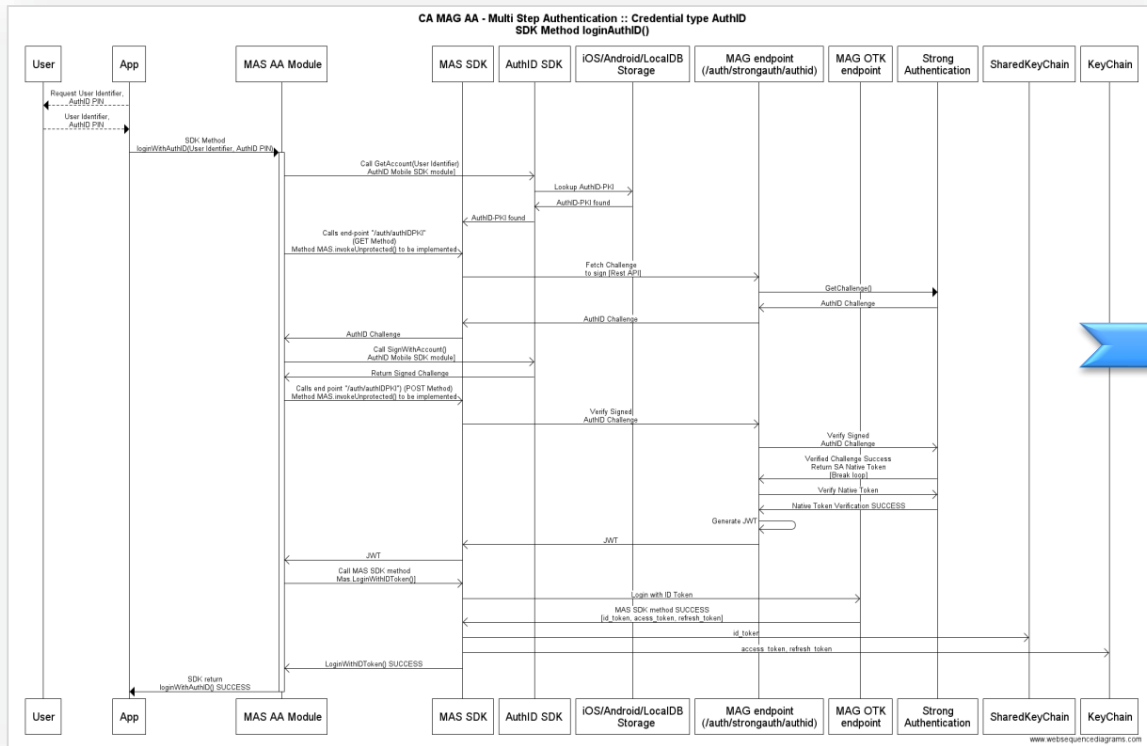
“Three-way Trust” Enables Greater Security



CA Rapid App Security:

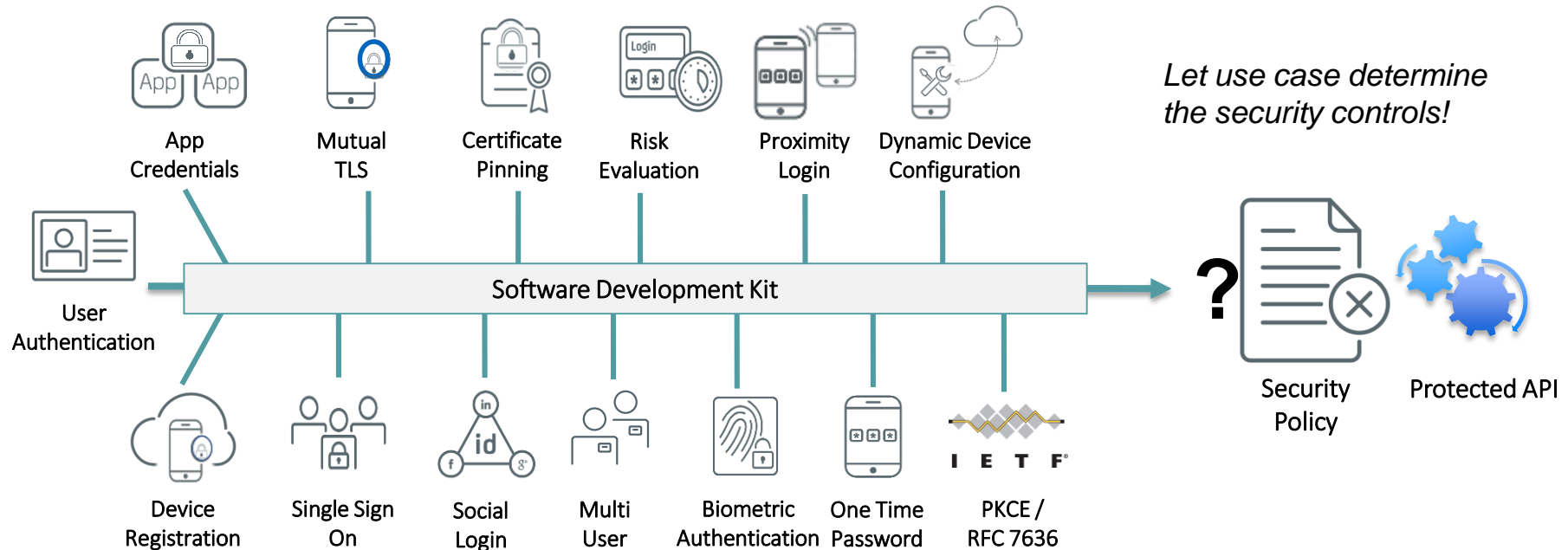
- Identifies user, app, and device
- Learns and tracks relationship between the three entities
- Three-way trust relationship is registered & authenticated to enterprise gateway
- Elevates authentication or prevents access when pattern deviates from norm

Universal SDK Simplifies the Developer Interaction



```
loginWithAuthID()  
(User Id, AuthID Pin)
```

Universal SDK Provides Flexibility!



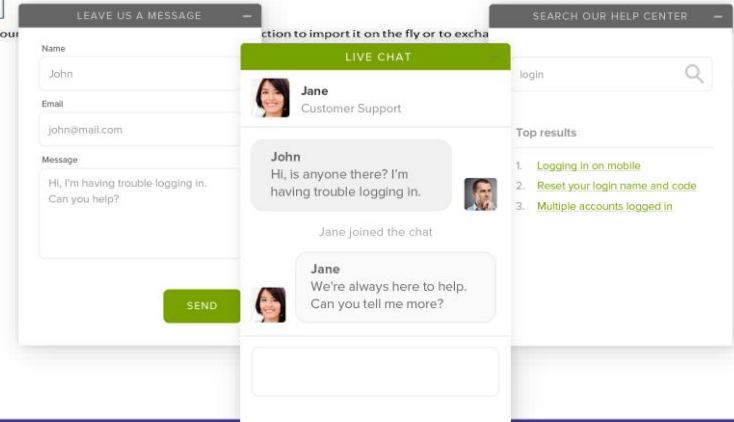
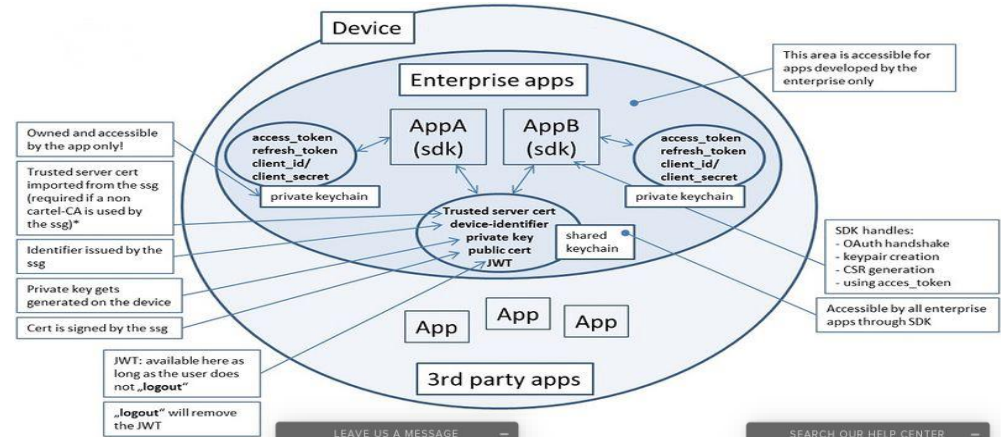
Universal SDK Features

- Dynamic application client credentials
- Mutual SSL with unique device certificates – PKI x509
- Certificate pinning – PKV
- Cryptographic camouflage – AuthID
- Tokenized credentials and access tokens – OAuth 2.0 and OpenID Connect (certified)
- Delegated authentication – Social Media, OAuth/OIDC OP, SAML, etc.
- Multi-factor Step-up Authentication – Q&A, OTP/HOTP, OATH
- Identity Brokering – Bearer/JWT -> SMOSSession/Kerberos, SMOSSession/Kerberos -> Bearer/JWT, etc.
- Biometric Authentication – TouchID/Fingerprint and FIDO
- Proximity Authentication – BLE NFC QRC
- Risk based analysis and profiles



Universal SDK Features – Continued

- Mobile SSO – Native App to App, App to browser, hybrid
- Geolocation and Carrier
- Push Notifications – APN, GCM
- User and Group Management (SCIM 2.0)
- Pub Sub messaging (MQTT 3.1)
- Secure Storage – local and private cloud

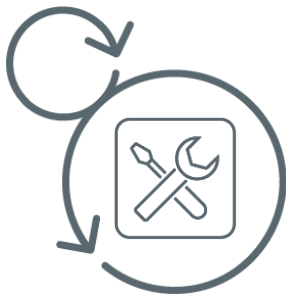


Security That Elevates the Experience



Customer/Employee

- Better experience
- Security based on the level activity being performed
- Improved trust without impact to user experience



Developer

- Security that is faster to implement
- Security that is cheaper to implement
- Security that is easier to implement (especially for non-security experts)



Organization

- Reduced risk, with stronger security and superior authentication options
- Improved and less costly security enables higher value services via mobile
- Manage security with security experts, rather than in each app

Rapid App Security Use Case



Healthcare

Customer
experience
Security &
Privacy
Integration



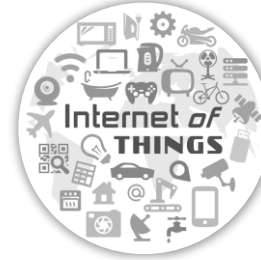
Finance/ Insurance

Contextual
Authentication
Risk Mitigation
Open Banking



Retail

Customer
experience
Risk Mitigation
Payment
security



Manufacturing

Internet of
Things(IoT)
Geo Fencing
Customer
experience



Automotive

Customer
experience
Internet of
Things(IoT)
Payment
Security

Better End User Experience With Higher Security

Questions?

Recommended Sessions

SESSION #	TITLE	DATE/TIME
DO1T17S	M&T Bank: Solving Real-World Banking Challenges with CA API Management	11/16/2017 at 1:45 pm
DO1T27S	Panel: Multi-faceted Security Options for a Mobile World	11/16/2017 at 2:30 pm
DO1T56T	API Academy: Microservices - How to Safely Speed Up Your Digital Innovation	11/16/2017 at 3:30 pm

Must See Demos

Aggregate,
Secure &
Manage
Microservices

101

Create an
End-to-End
Modern App
Architecture

109

Eurosport: A
Showcase for
IoT & App
Experiences

101

Modernize
Architectures
With Low-code
Microservices

106

Protect Apps
& APIs with
Omnichannel
Security

104

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