



CA Rapid App Security

Simplified, Comprehensive Authentication for Modern Applications

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Digital Transformation is Underway



>2.8B

smartphone users
by 2020²



>38B

connected devices by
2020³



>1.8B

users of intelligent
digital assistants by
2021⁴



>50%

of breaches
exploited legitimate
passwords in 2015⁵

Sources:

1. Vanson Bourne
2. [Statista](#)
3. [Juniper Research](#)
4. [Statista](#)
5. [DARKReading](#)

#1

Security concerns are the
top obstacle in the app
economy

-- Vanson Bourne Market Research

Impact of Digital Transformation on Banking

MOBILE BANKING NOW



Weekly mobile bankers exceeded that of weekly branch bankers in 2015 for first time ever¹

MOBILE BANKING FUTURE



>2B

Mobile users will have used their devices for banking purposes by the end of 2021²

MOBILE PAYMENTS



~70%

Of all mobile users in the U.S. will make a mobile payment in 2017³

MOBILE WALLET



249%

Increase in mobile wallet transactions on year over year basis in 2016 report⁴

Sources:

1. [Javelin Strategy](#)
2. [Juniper Research](#)
3. [Tech Crunch](#)
4. [The Street](#)

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?

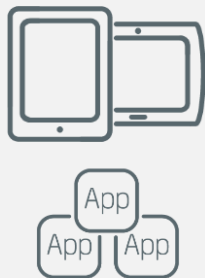


What if you could...

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?

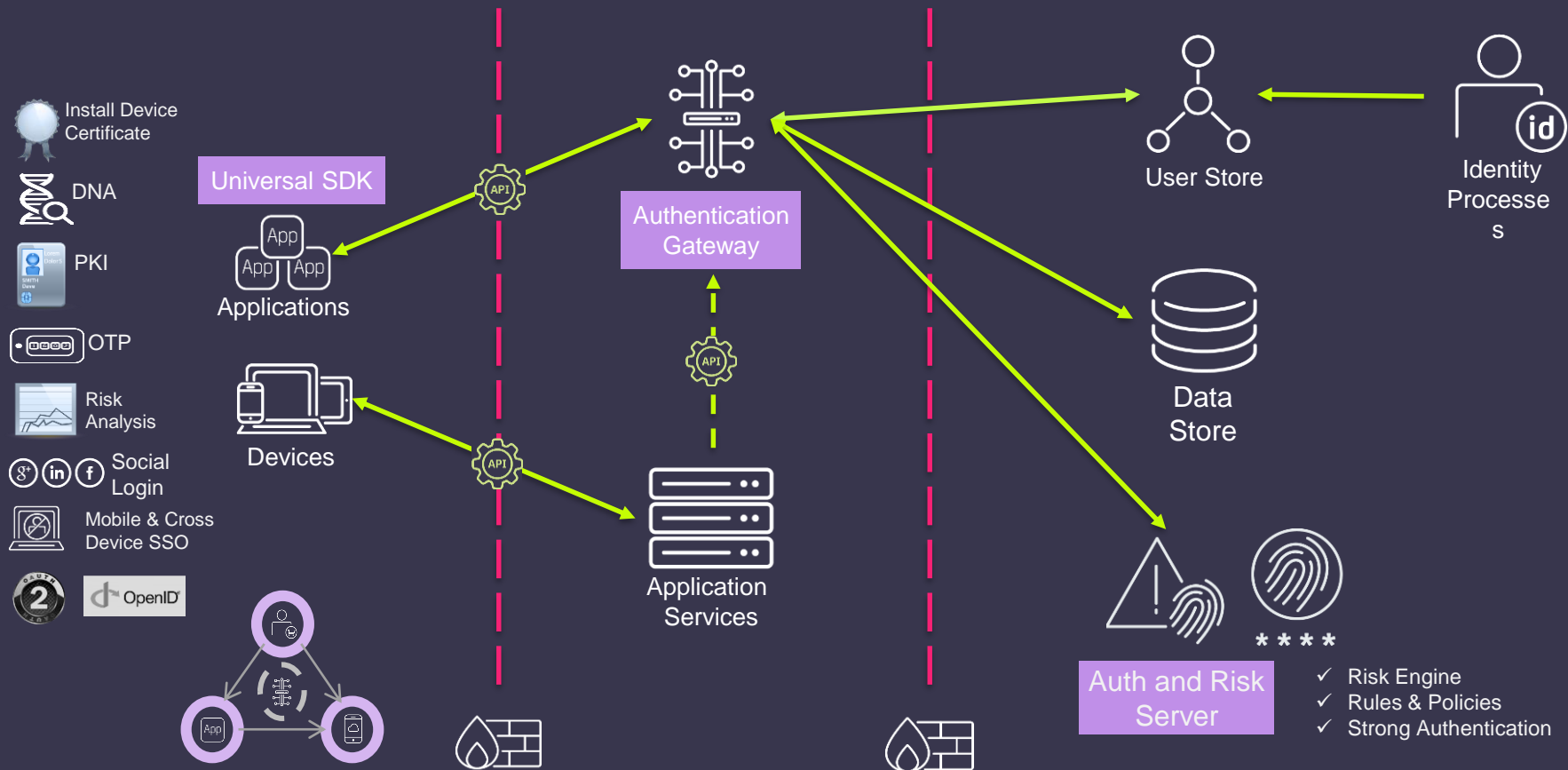
Introducing CA's Rapid App Security Solution

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

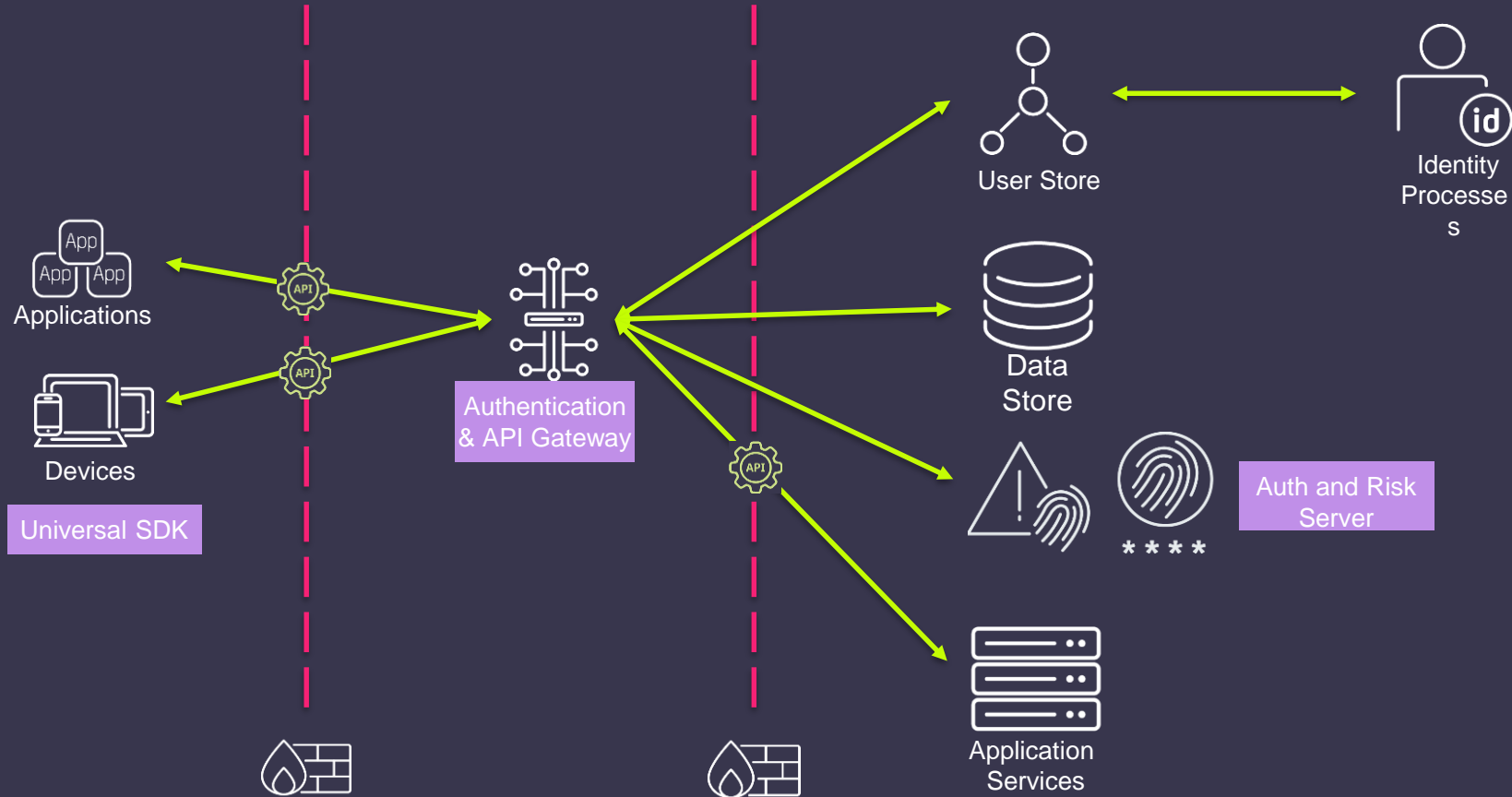
- Fraud Prevention in real-time
- Robust authentication methods inclusive of contextual authentication
- Faster & convenient means to secure Apps
- Strengthen consumer confidence and enhance brand value by creating a simplified user experience

Built on CA Mobile API Gateway and CA Advanced Authentication

Rapid App Security Solution from CA



Additionally...Authentication and API Security

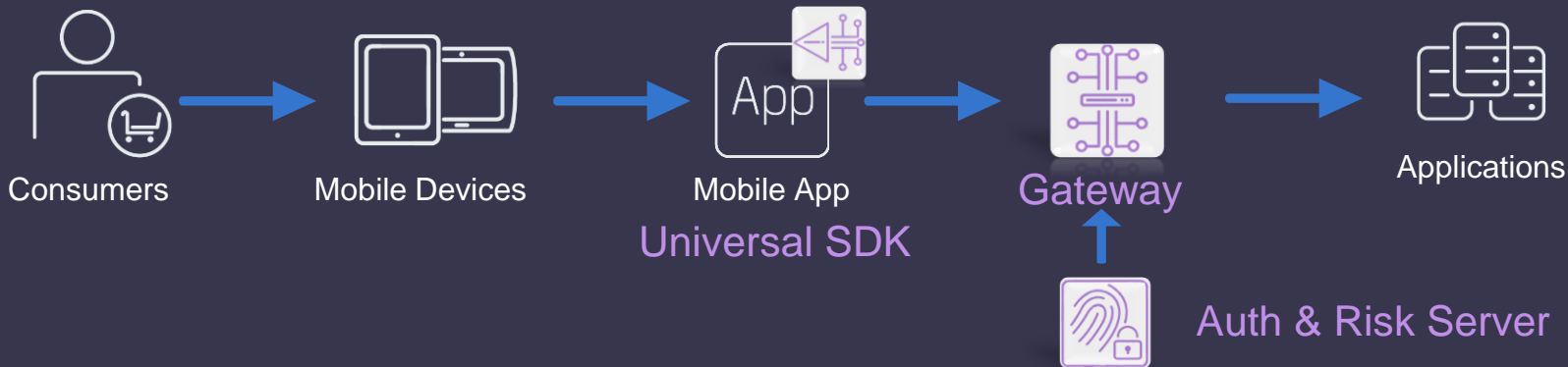


CA's Rapid Security Authentication Architecture & Components

Typical Flow for Consumers to access Online Applications via Mobile App



New Components introduced by the CA's Rapid App Security solution



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

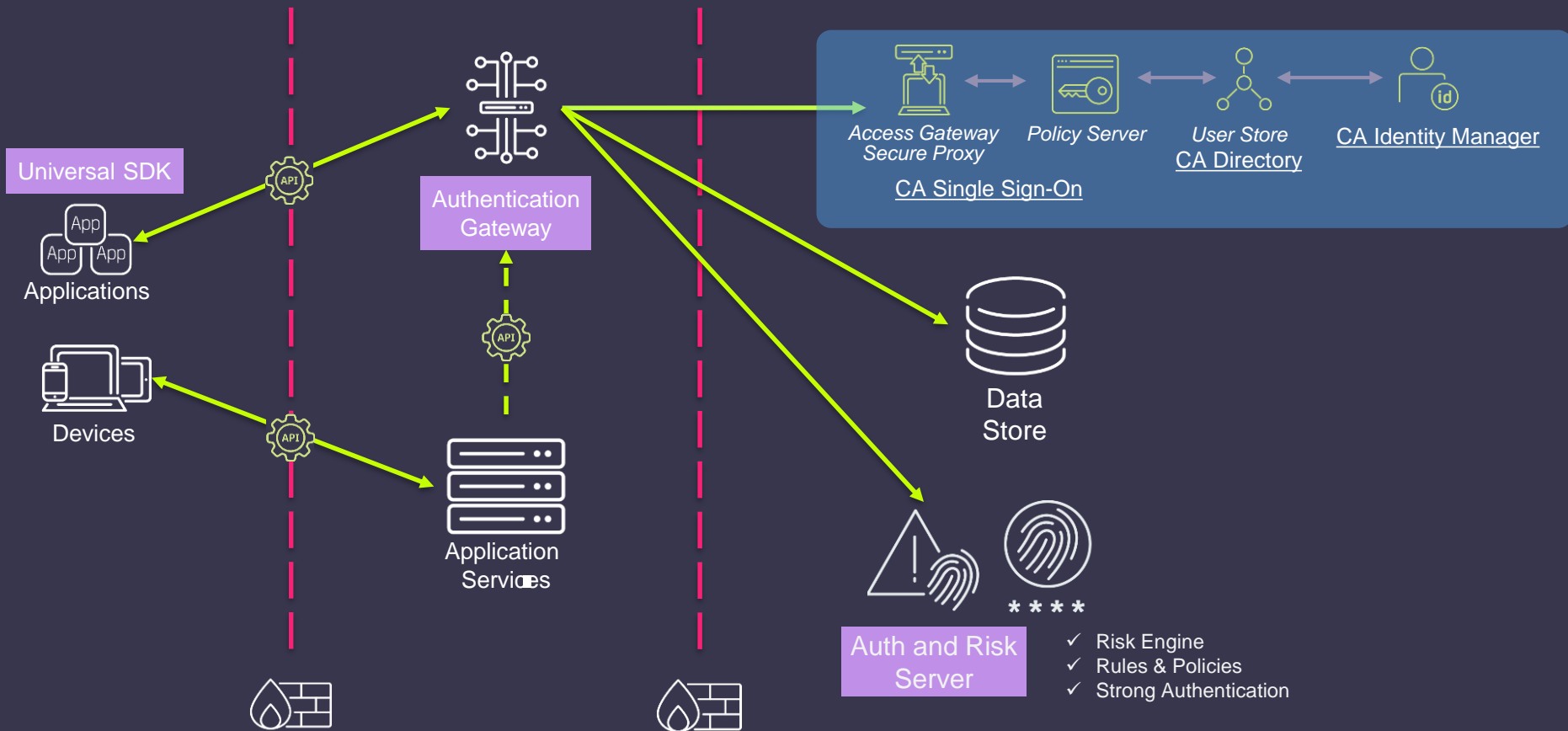
Security that is faster to
implement
Security that is cheaper to
implement
Security that is easier to
implement (especially for non-
security experts)



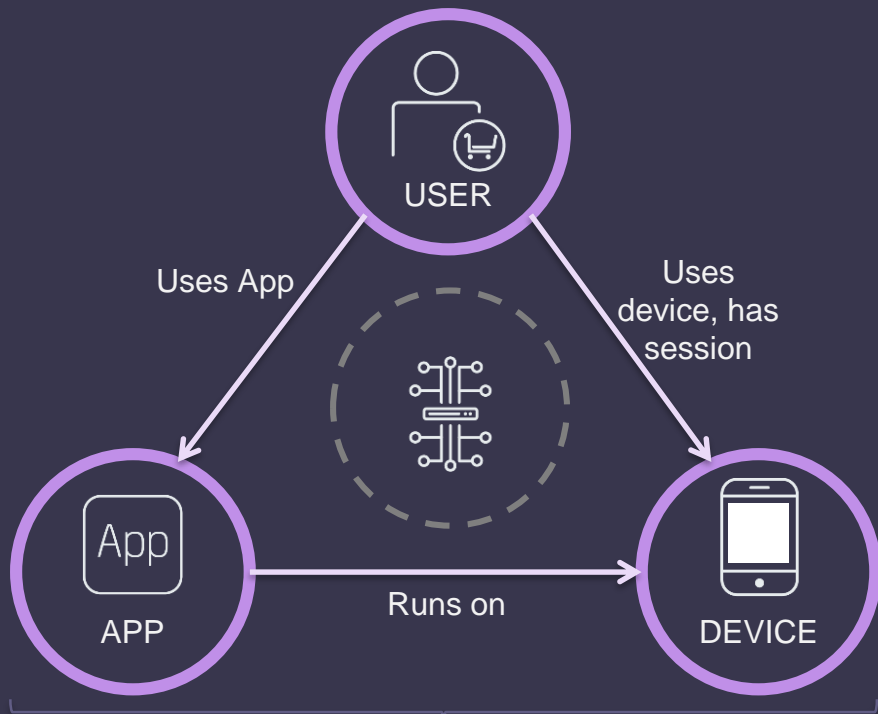
Organization

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 with CA Security Solutions

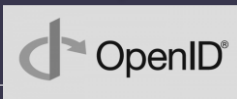


“Three-way Trust” Enables Greater Security



Rapid App Security Solution:

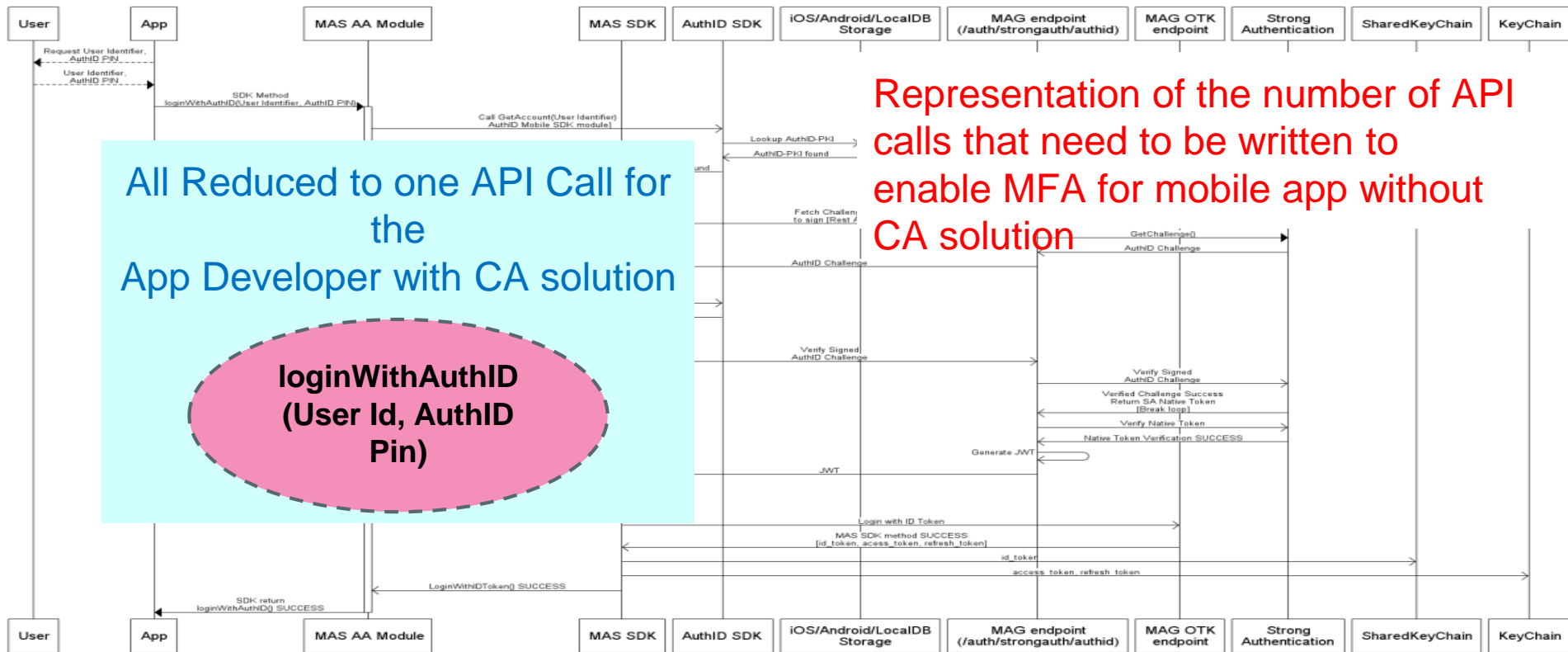
- Identifies user, app, and device
- Learns and tracks relationship between the three entities
- Three-way trust relationship is registered & authenticated to enterprise gateway
- Elevates authentication or prevents access when pattern deviates from norm



PKI

Rapid Integration with Native Mobile Apps

CA MAG AA - Multi Step Authentication :: Credential type AuthID
SDK Method loginAuthID()



Rapid App Security Use Case



HealthCare

Customer
experience
Security &
Privacy
Integration



Finance

Contextual
Authentication
Risk Mitigation
Open Banking



Retail

Customer
experience
Risk
Mitigation
Payment
security



Manufacturing

Internet of
Things(IoT)
Geo Fencing
Customer
experience



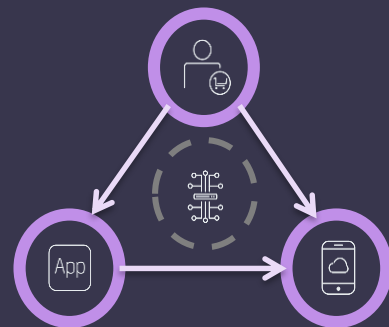
Automotive

Customer
experience
Internet of
Things(IoT)
Payment
Security

Better End User experience with higher security

Finance Customer Stated Objectives

- Provide more and better services with mobile (digital)
 - Higher value services => higher risk
- Make the authentication experience easier
 - Device + PIN is more secure than user/pw
- Stronger authentication -- across channels
- Personal security management center
 - Set your limits, notifications, verifications
- Reduce call center volume with self-service



- ☐ Tighter “cryptographic binding”
- ☐ Improved security of the app and the device
- ☐ Tokenizing credentials
- ☐ Stronger and risk based identity checks

Telco and Utility Example

Mobile bill payment – Improve Customer Experience

Push notification
reminder for bill-pay



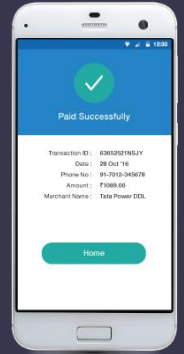
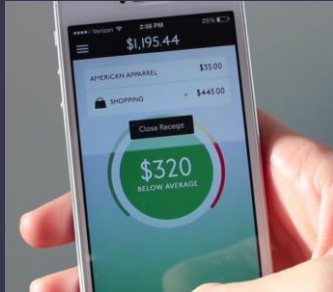
Frictionless login
with fingerprint



End user login via
Rapid App Security,
DDNA, Location,
Risk Analysis



Bill Payment
successful



End user Authentication, Device DNA, Risk score analysis, Compliance



Thank You.



Presenter

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@cainc



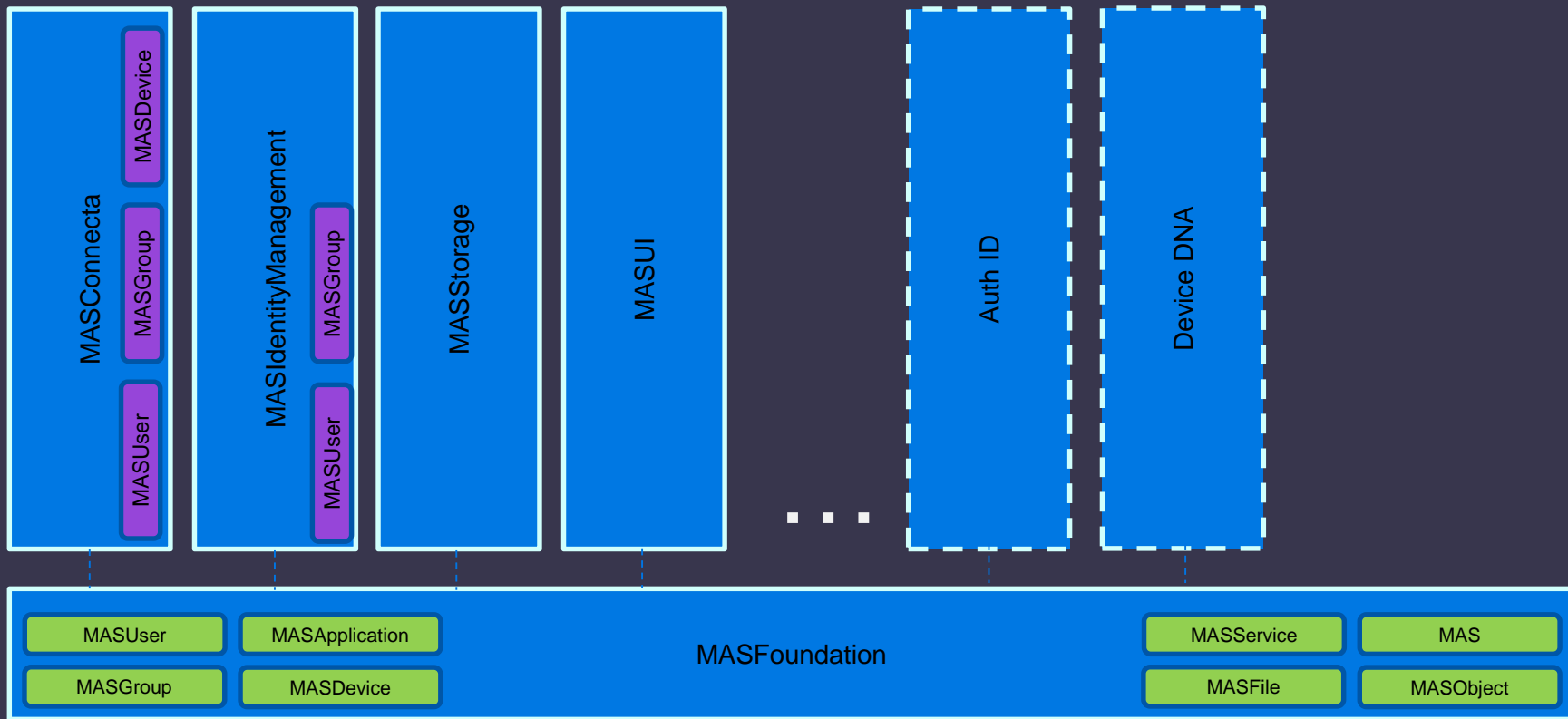
slideshare.net/CAinc



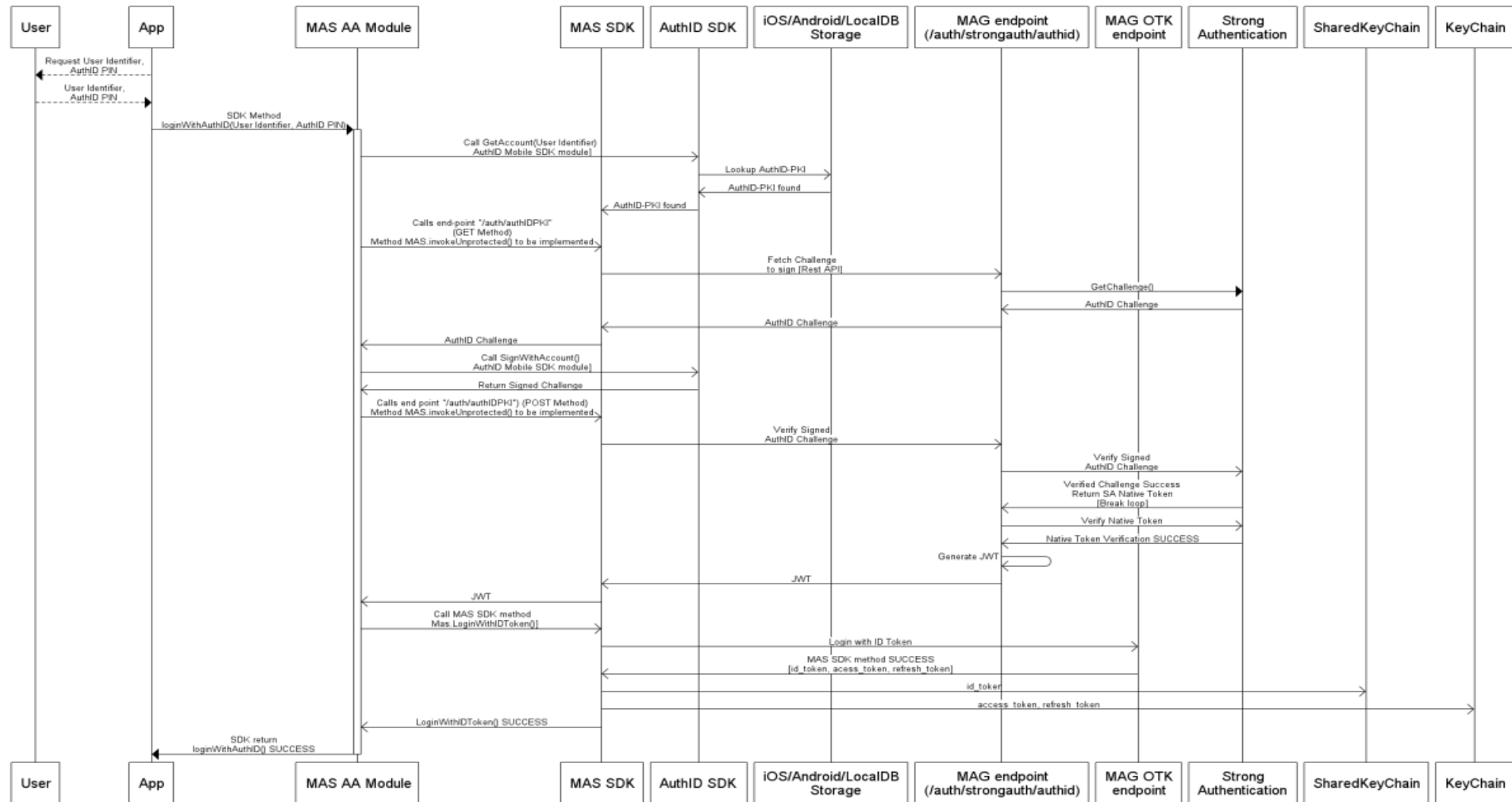
linkedin.com/company/ca-technologies

ca.com/API

Rapid App Security SDK Architecture



CA MAG AA - Multi Step Authentication :: Credential type AuthID SDK Method loginAuthID()



CA MAS AA - Multi Step Authentication :: TouchID based loginAuthID()

