

# Securely Enable the Open Enterprise

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# Key initiatives for IT security organizations

**DELIVER SECURE NEW BUSINESS SERVICES**



**SECURE THE MOBILE, CLOUD-CONNECTED ENTERPRISE**



**PROTECT AGAINST INSIDER THREATS AND TARGETED ATTACKS**



*Enable the Business*

*Protect the Business*



**Social Logins**



**Internet of Things**



**Mobility**



**Big Data**



**Collaboration**



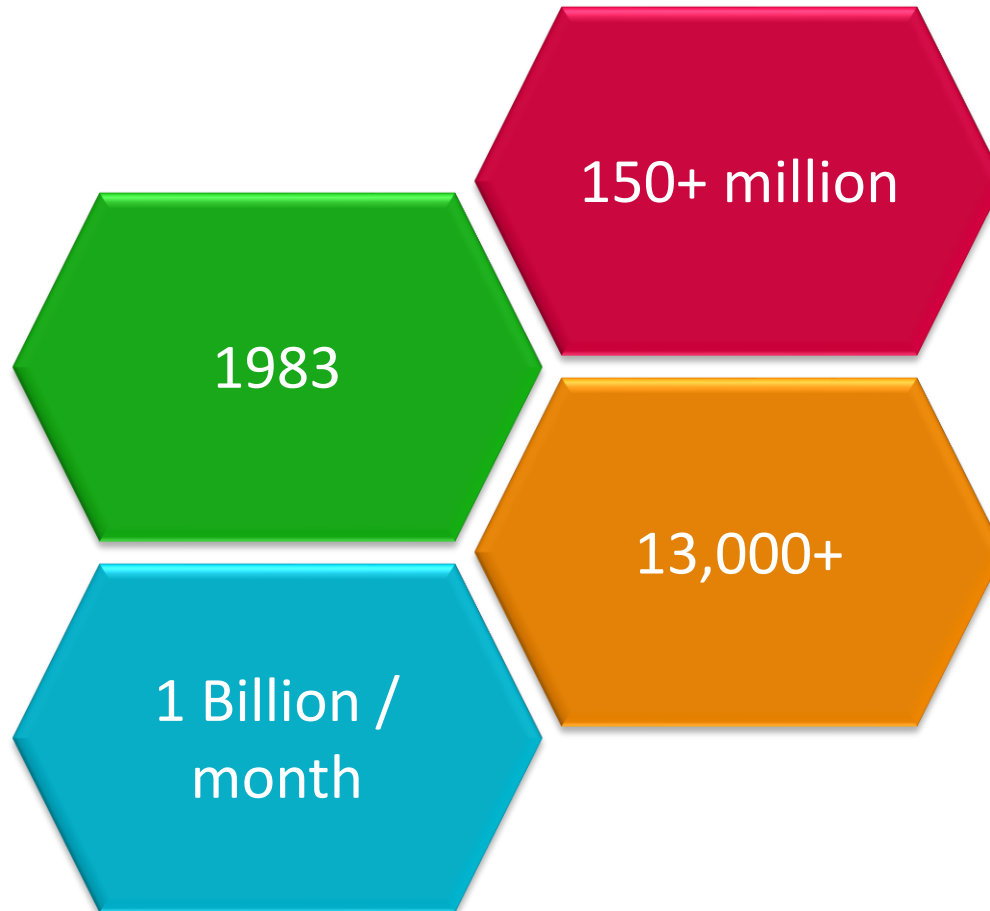
**Cloud**



**Insider Threat Targeted Attacks**

# Some of our security credentials

## CA Security Solutions



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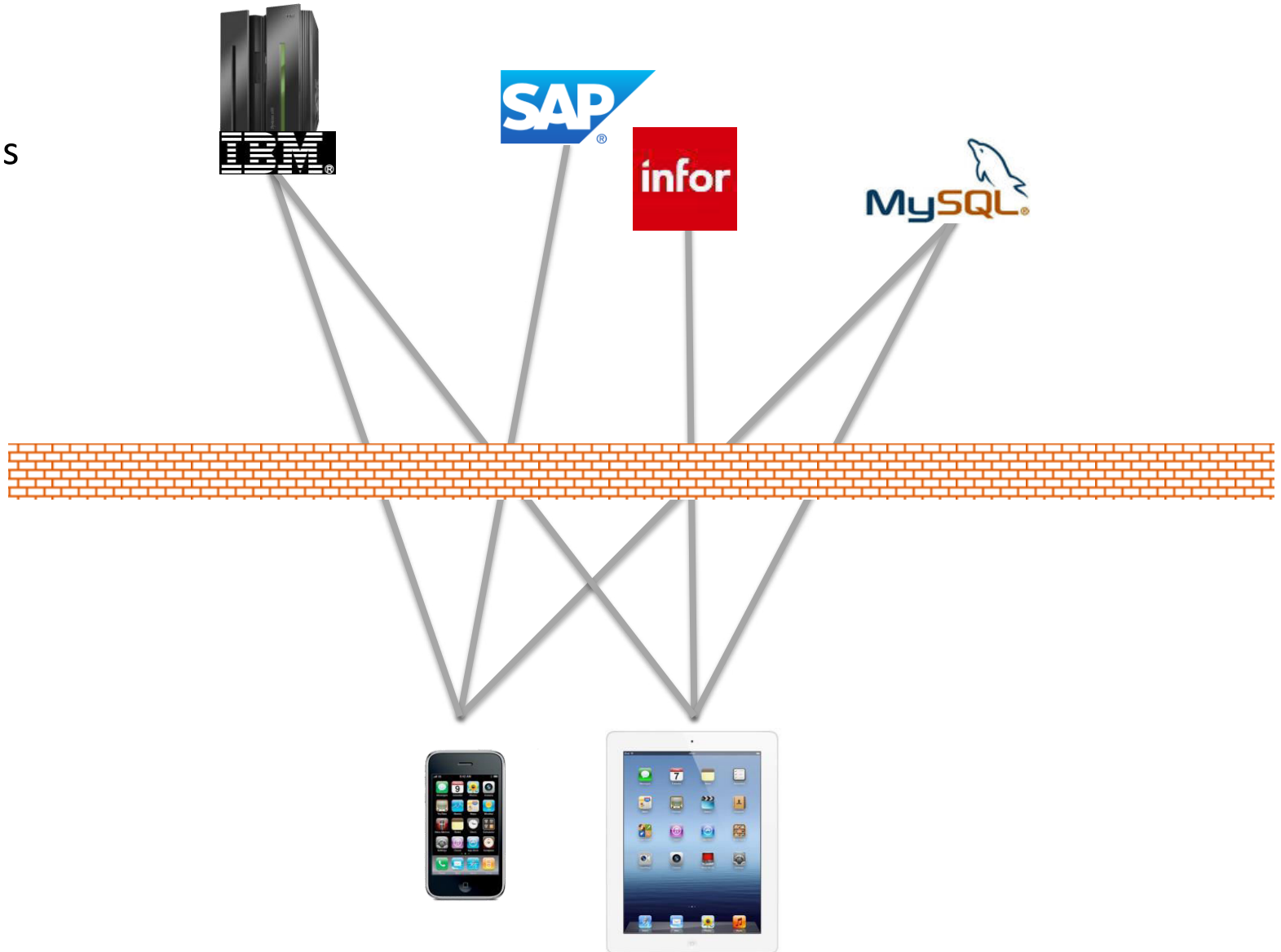
**Cloud**



**Insider Threat Targeted Attacks**

# Life without API Management

Enterprise  
Applications  
& Data



# Life without API Management

Enterprise  
Applications  
& Data



## Unmanageable

— Security — Performance — Maintenance



# Web API is the New Web Interface

Enterprise  
Applications  
& Data



Transformation

Security

Access Control

Mediation



Throttling

Caching

Metering / SLA

Developer Mgt



# Brave New World: Transform Backend Silos Into APIs





# Enabling Developers To Find & Use Your Services

## Mobile Developers



< *Design Time* <

## Layer 7 API Developer Portal



## Mobile / IoT Apps



> *Runtime* >

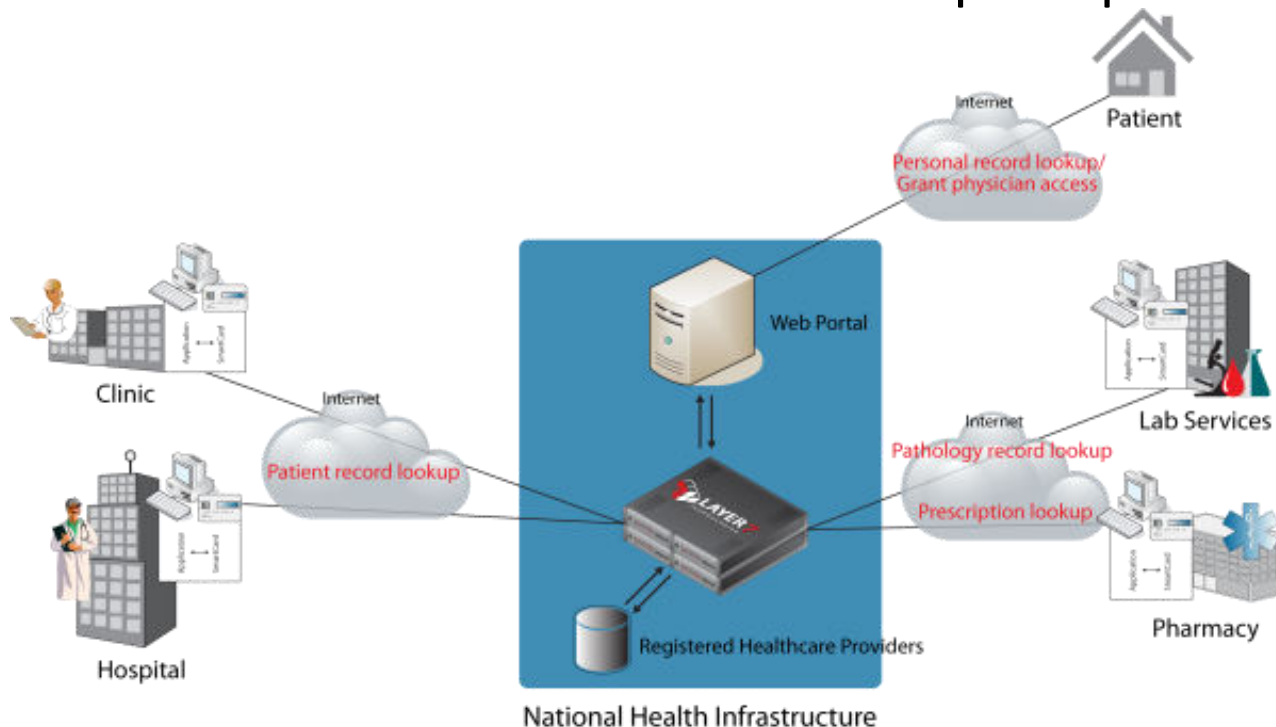
## Layer 7 API Gateway



# Decentralized National Healthcare



- **Problem:** the government needed to reduce healthcare admin & overhead costs
- **Solution:** decentralized solution that securely pulls patient information from healthcare providers nationwide, and assembles them to create a complete patient record on demand

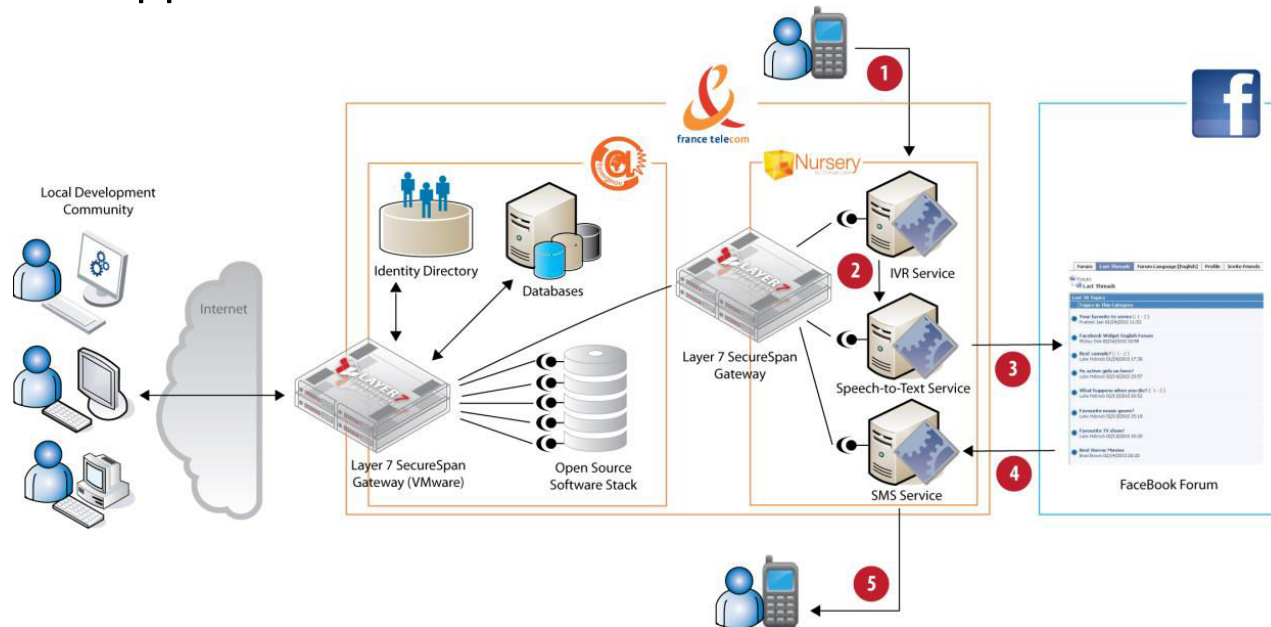


## Results:

- Reduce costs
- Improve quality of healthcare
- Protect patient record privacy

# Telco: Publishing Telecom APIs

- **Problem:** publicly exposing Telecom APIs presents some unique challenges around how they get packaged, secured and managed for easy consumption
- **Solution:** policy-based controls allowed defining the identity and security for their APIs; track usage; monitor interface health; and update APIs without breaking client applications



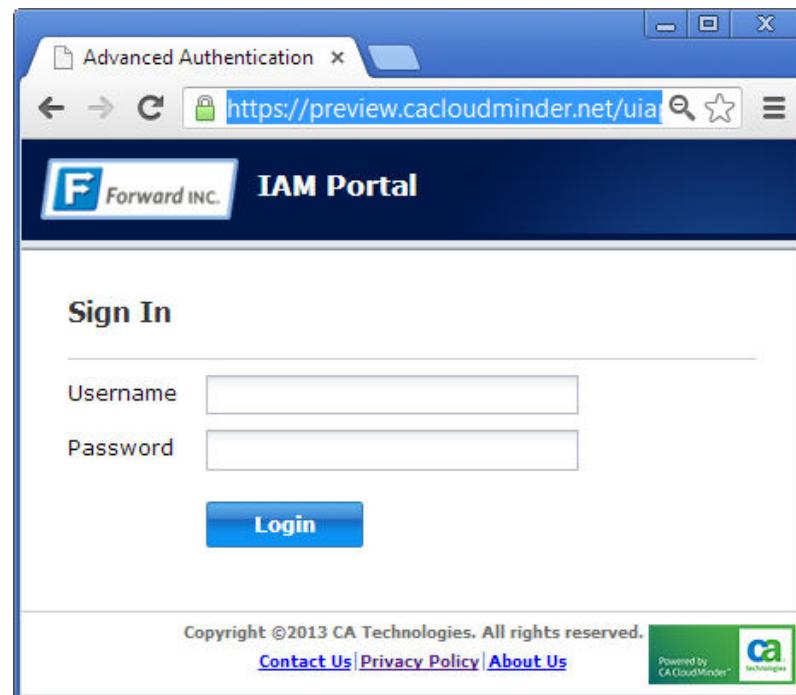
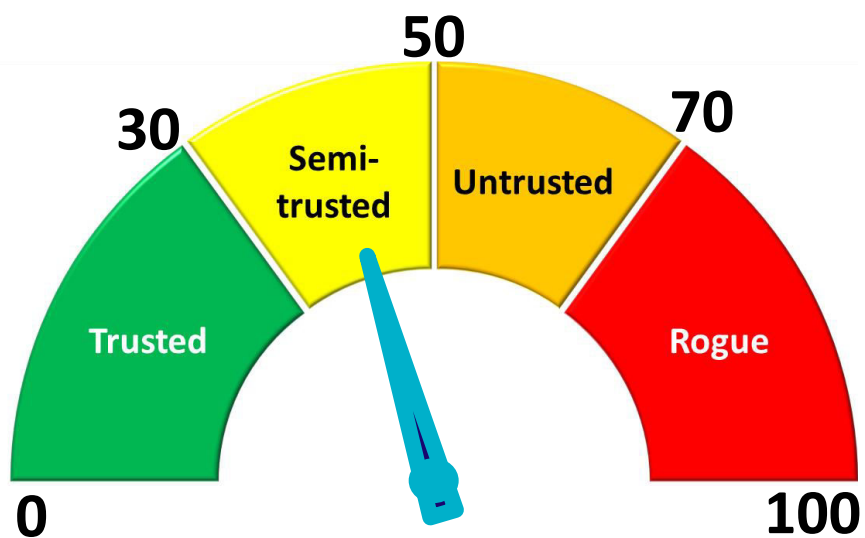
- **Results:** an agile IT platform on which to develop new offerings faster and at less cost by reusing/recomposing existing services

# Advanced authentication & fraud detection

Security

Convenience

Cost



Layer 1

Invisible Risk-Based Authentication

Layer 2

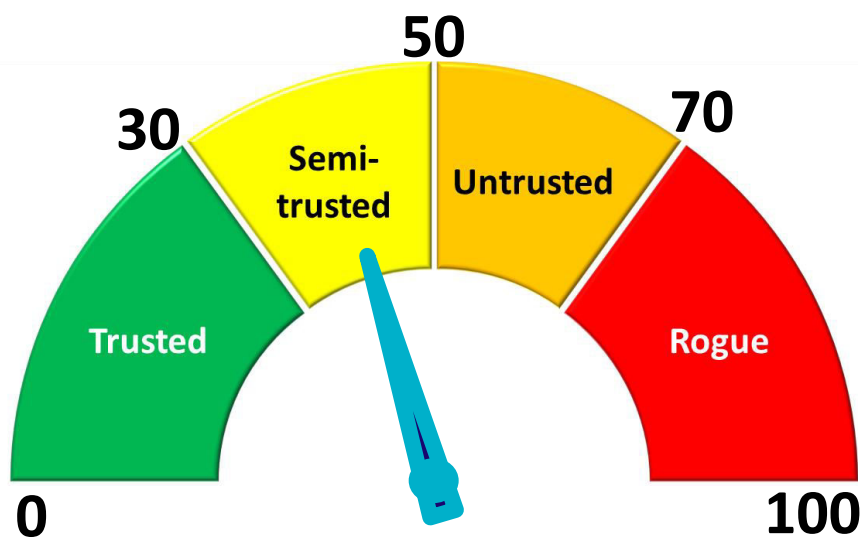
Strong / Appropriate Authentication

# Advanced authentication & fraud detection

Security

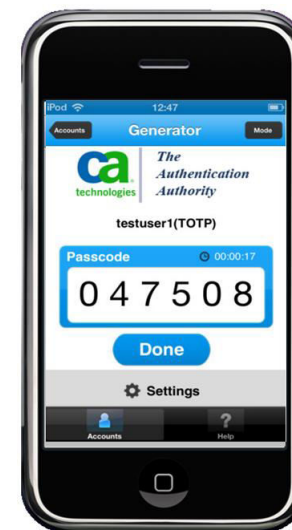
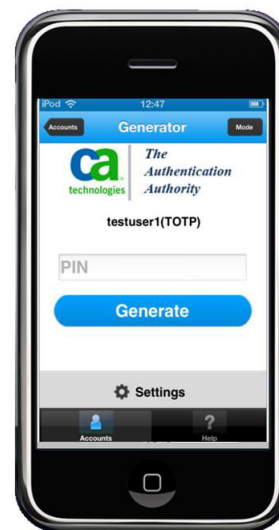
Convenience

Cost



Layer 1

Invisible Risk-Based Authentication

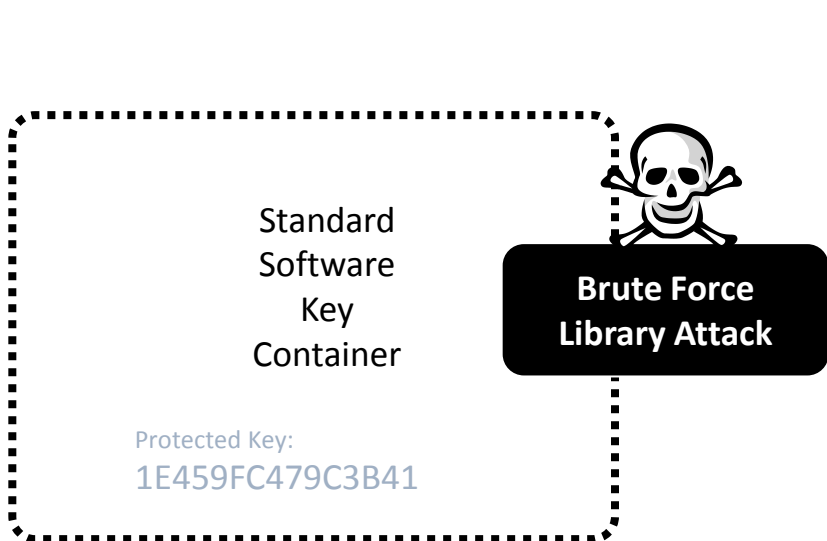


OTP can be delivered by SMS, voice or email

Layer 2

Strong / Appropriate Authentication

# Are all soft tokens secure?

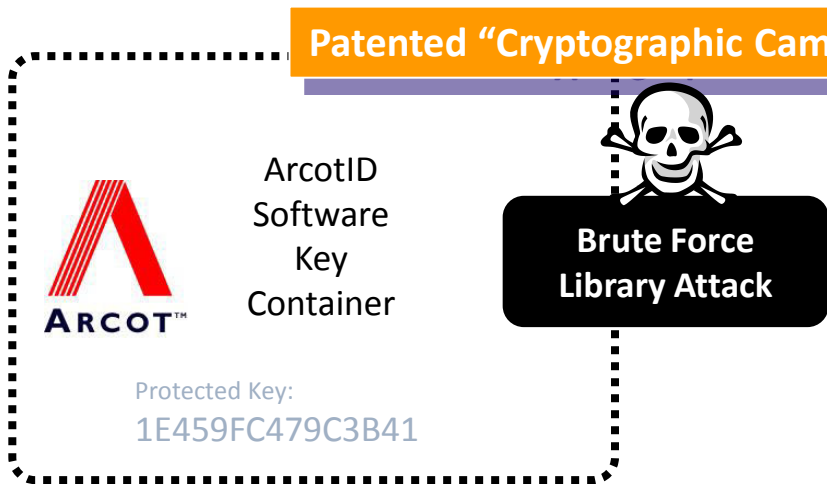


⋮

**Key Rule: Hex, Begins and Ends with 1**

A2B199C7CD39J51  
 156F85A750265BA  
 17FA3FF43B82C6D  
 C1399D66A114E65  
 1E459FC479C3B41  
 B4D3A1E75294A4D

⋮



⋮

1CE59A451B257C1  
 1D01A4596B79B21  
 159CA7C8439BA31  
 1A964942B5AC5B1  
 1E459FC479C3B41  
 17675ABC59DE371  
 1996C2A7EF64DA1

⋮

• Each is a plausible result

• The only way to determine correct key is to sign a challenge and send it to the AuthMinder Authentication Server

# CA Advanced Authentication endorsements



Dr. Martin E. Hellman  
Professor Emeritus  
Stanford University  
Inventor of PKI

“Since the invention of public key cryptography 25 years ago, **people** have been **struggling to secure the private key without the assistance of hardware**

**Arcot’s** innovative Cryptographic Camouflage\* has **solved this problem**. Finally there is a **cost-effective and convenient** means to strongly authenticate users and transactions over the internet **without** the need for **cumbersome hardware.**”

\* patent 7,170,058

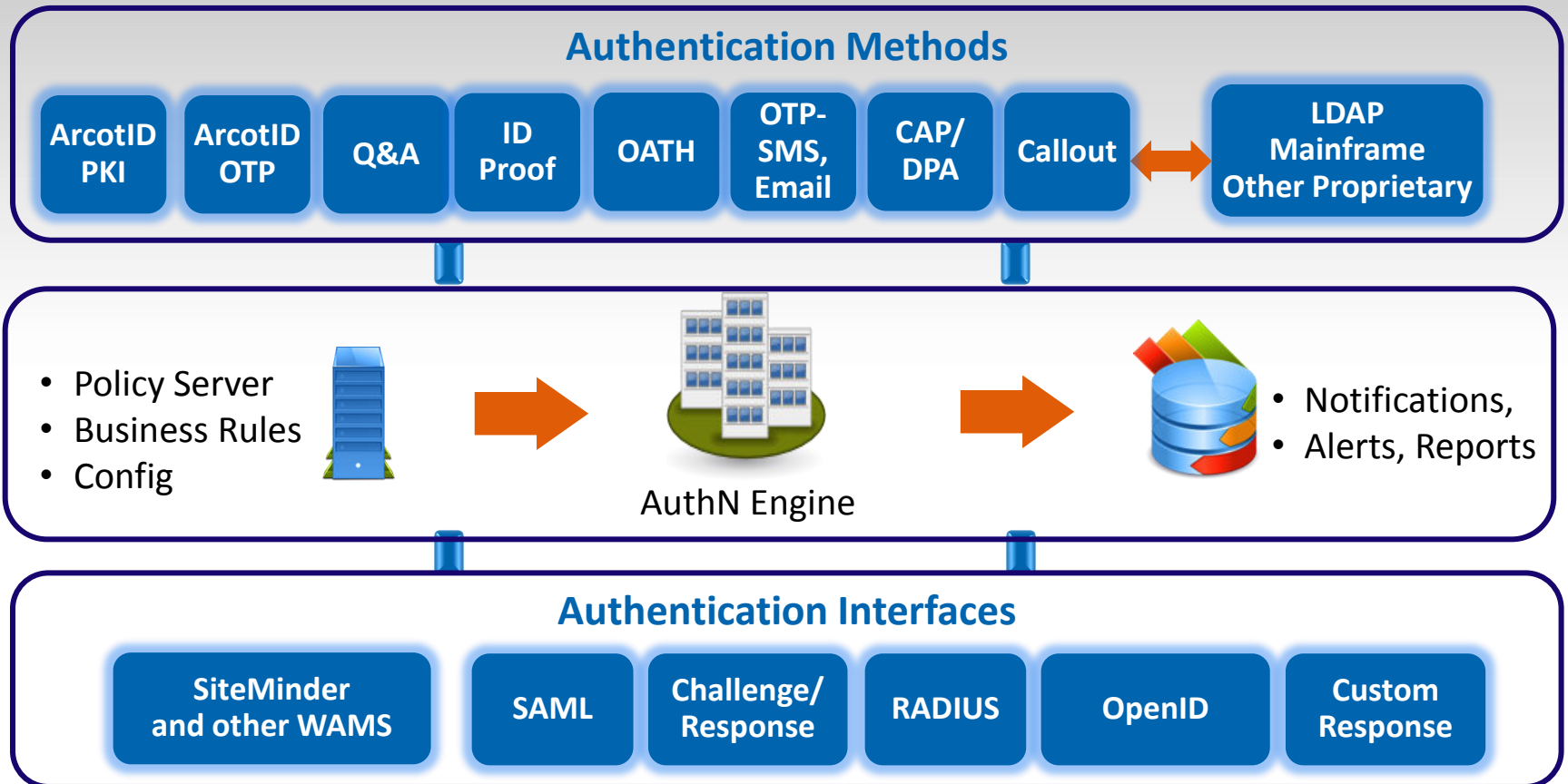


Dr. Taher Elgamal  
PhD – Stanford  
Inventor of SSL while  
at Netscape

“Perhaps one of the weakest links in accessing important internet assets is a strong tie between the user and the areas they have the right to access. The use of a simple **user name-password mechanism is truly a weak link.**

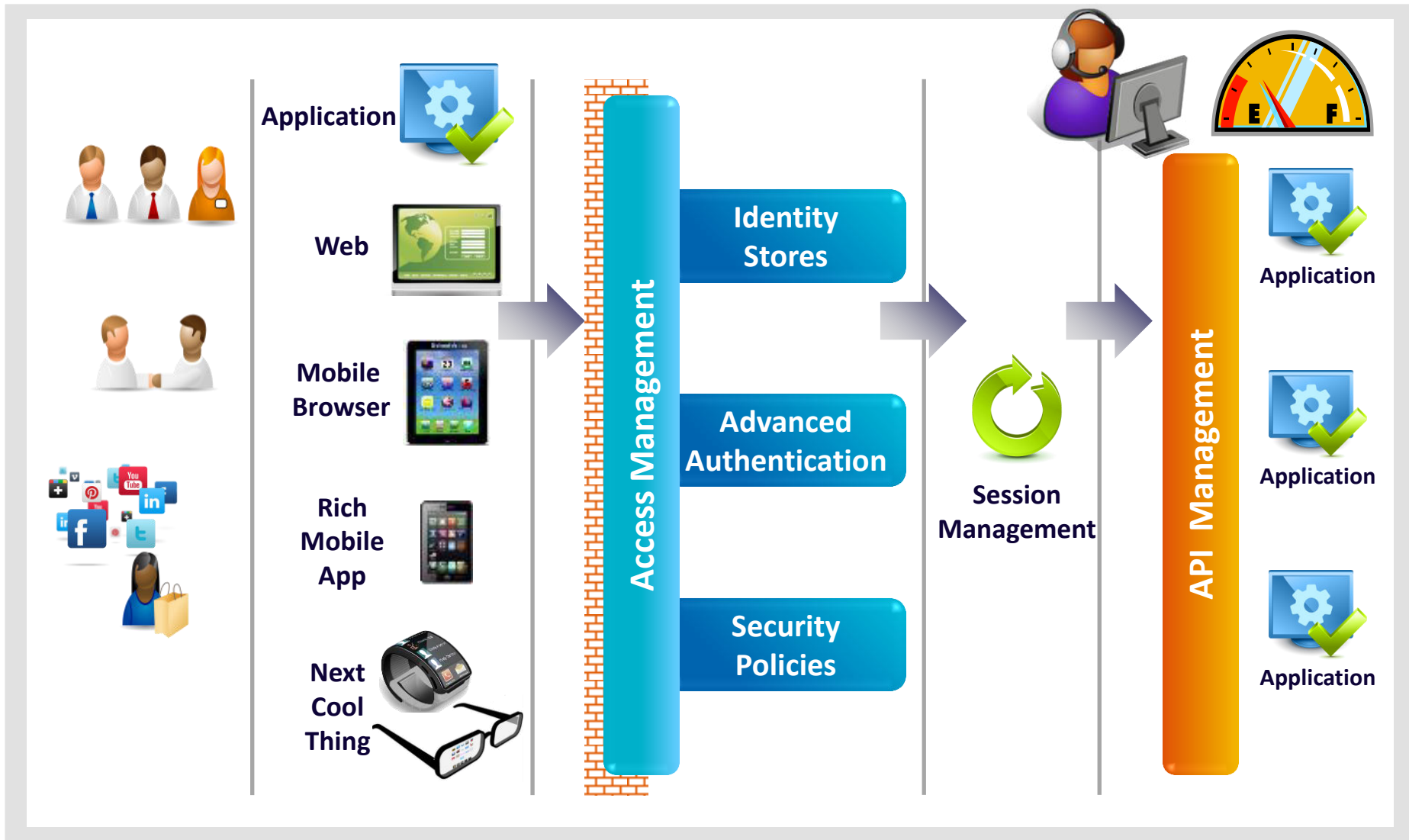
What is **unique about Arcot’s approach** is that it is **both strong and people friendly.**”

# CA AuthMinder – Flexibility





# Optimized Customer Experience – A key Differentiator



# Thank You



## **Shirief Nosseir**

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