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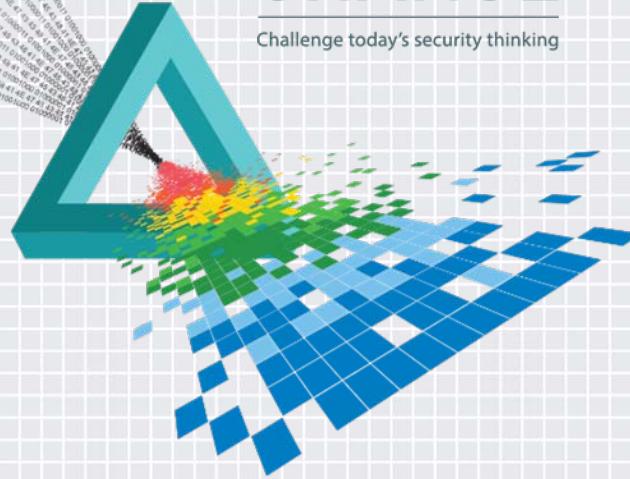
Security in the App Economy How to Ride the Wave Without Wiping Out!

Michelle Waugh

Vice President, Security Solutions
CA Technologies

CHANGE

Challenge today's security thinking



Are you rolling out new apps & services to your customers?



Are you using security to improve customer engagement?





Are you leveraging security to enable and drive business?



Have you had a breach in the last year -as far as you know?

Today, Every Company is a Software Company.[®]

#RSAC

In 2014, CEOs must focus on leading their organizations to think like and become more like “tech” companies, because within a few years, digital business capabilities will dominate every industry. Urgent action is needed because first-mover advantage is common in digital business, and fast followers must be very fast.

Gartner; “CEO Resolutions for 2014—Time to Act on Digital Business”; Mark Raskino; March 5, 2014



From sneaker company to data enabled athletic brand.



From book seller to insight driven delivery service, cloud servicer and entertainment hub.



From UK Grocer to global consumer retailer leveraging data and technology that reframes the shopper experience.

Traditional Approach to Security



Security in the Open Enterprise

Ripped from the Headlines

Health care data breaches have hit 30M patients and counting

Chip equipment manufacturing giant announces breach

Spooks tell business: Consider stripping staff of smart phones to avoid cyber attacks

Advice issued by GCHQ and seen by The Telegraph warns firms that staff are the 'weakest link in the security chain' and could be blackmailed by enemy spies

Government hacks and security breaches skyrocket

Financial watchdog sounds alarm on bank security breach

DHS Confirms U.S. Public Utility's Control System Was Hacked

Infographic: 70 Percent of World's Critical Utilities Breached

New research from Unisys and Ponemon Institute finds alarming security gaps in worldwide ICS and SCADA systems within the last 12 months.

Cybersecurity
Another Day, Another Retailer in a Massive Credit Card Breach

By Karen Weise | March 05, 2014

Security

#1

Security concerns the top obstacle in app economy

-- CA Technologies with Vanson Bourne

47%

Leaders saw revenue increase for security-enabled services
(18% of Laggards)

#2

Security priority for business is improving mobile experience

>25%

Overall IT spend devoted to Security over next 3 years

78%

Increase in breaches YoY from 2013 to 2014

Application Economy Requires Identity-centric Security

#RSAC



What you
need to be
thinking
about



**SIMPLIFY ANYWHERE,
ANYTHING ACCESS**

**PROTECT DATA WHILE
ENABLING BUSINESS**

**EXTEND BUSINESS
WITH SECURITY**

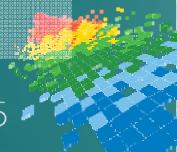
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Simplify Anywhere, Anything Access

CUSTOMERS, EMPLOYEES, PARTNERS



**What you
need to do**

Enable access from
any device

Improve customer
adoption/experience/
loyalty

Coordinate security across
Web, mobile, APIs

The Application Economy is Driving the Rapid Adoption of Mobile Applications

#RSAC



“By 2020, more than 63% of enterprises expect their desktops to be replaced by mobile devices connected to the network via office wireless LAN”

Gartner - “Mobile Device Proliferation Is Forcing Network Leaders to Redesign Enterprise LANs”, Bjarne Munch, Christian Canales, 14 May 2014

79% of organizations are using SaaS



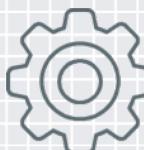
Enabling your Mobile Workforce is a Journey



Web



Web-App



API



Native App



SAP



Existing Web Applications

New Native App Projects

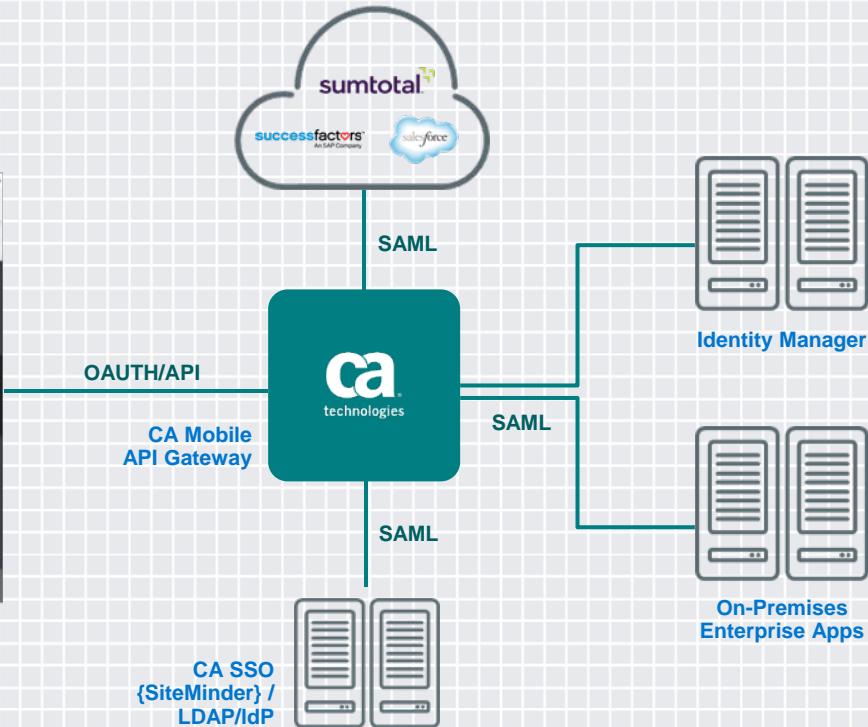
Unified Access

Different security options: Deliver app security controls such as SSO based on when & where customer needs it.

IAM + API Solution Enables Fast, Secure Mobile Delivery of Enterprise Applications

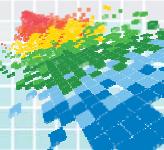
BENEFITS

- ◆ Common standard across platforms and applications
- ◆ Improves developer velocity and time to value
- ◆ Application user and device level security



Lessons in Mobility

- ◆ Begin with the user experience as the focus. Is login required?
- ◆ Review and define your architecture holistically; be prepared to move fast!
- ◆ Choose the app type that fits your use case and objective and implement a solution that combines usability and security (native app SSO + web)
- ◆ Leverage your existing SSO implementation to improve the experience
- ◆ Engage the business now around what SaaS projects are coming up and position the enterprise friendly vendors...say “yes” to BYOA
- ◆ Start thinking beyond front door access for SaaS



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Security – By the Numbers

1,023,108,267 RECORDS BREACHED IN 2014

1,541 NUMBER OF BREACH INCIDENTS

78% BREACHED RECORDS INCREASE FROM LAST YEAR

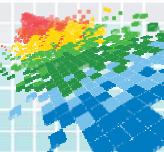
Data records were lost or stolen with the following frequency

Every Day
2,803,036

Every Hour
116,793

Every Minute
1,947

Every Second
32



Protect Data While Enabling Business



PROTECT MOBILE APP



STRONGLY AUTHENTICATE USERS



CONTROL ACCESS TO WEB APPS



CONTROL ACCESS TO APIs



SECURE PRIVILEGED IDENTITIES

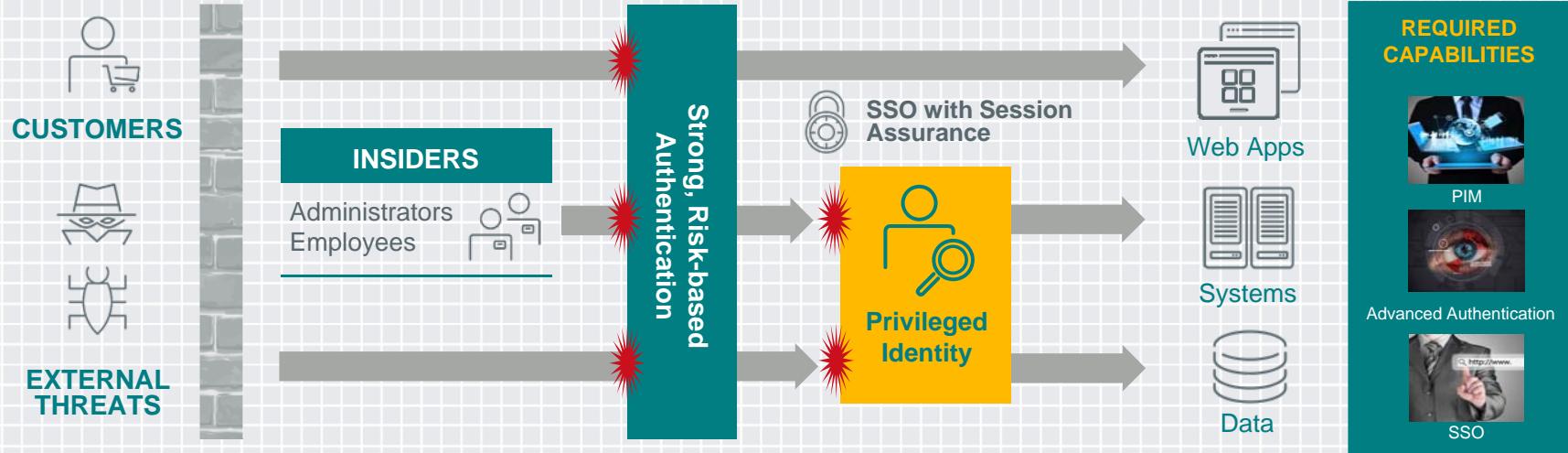
What you
need to do

Enable security from
end-to-end

Defend against
external threats

Protect against insider threats

Combat Insider Threats and External Attacks



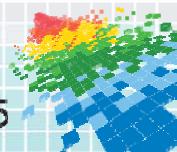
BUSINESS VALUE

- Reduced risk of breach through fine-grained admin controls, hypervisor security, and shared account management.
- Increase security and customer trust with strong, risk-aware authentication
- Protect against session hijacking with unique session assurance



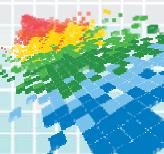
PROOF POINTS

- CA Privileged Identity Manager is the ONLY solution that helps secure critical systems at the OS kernel level
- CA PIM is protecting the systems at 9 out of the top 16 Fortune 25 companies
- CA Advanced Authentication enabled 64% of surveyed companies improve their user experience



Lessons in protecting your business

- ◆ Perimeter security is necessary, but not sufficient. You need to think end-to-end and defend from the inside-out
- ◆ Think about your identities. Do your accounts have the right privileges? Who certified access? Do you have orphaned accounts?
- ◆ Nearly all of the most damaging attacks use a privileged identity – focus your attention here!
- ◆ Don't think of insider threats as purely malicious employees: they can be targeted with social engineering or can be careless
- ◆ Additional security doesn't have to make the user experience more difficult. Risk-awareness is essential - security gets applies only where needed



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IDENTITY AS A SERVICE

What you
need to do

Reduce infrastructure

Reduce need for
security expertise

Drive agility into the
business



3 million+
Direct customers

6,500
Corporate & public
sector customers

170
Countries



FOCUS ON CORE COMPETENCY

Our advice

Seek security expertise

- Ensure they have depth and breadth of experience in delivering service
- Remain engaged with your partner security expert

BT's approach

- Provide in-depth defence and incident response
- Around-the-clock protection from cyber threats
- Understand risks as organisation changes – when new technologies are introduced, new vulnerabilities presented
- Provide secure access to all remote and mobile workers

Lessons in Identity & Access as a Service

- ◆ Enable the business to outsource IT Security to managed services and focus on your true business
- ◆ Become the identity provider for external as well as internal users
- ◆ Secure identity and access from end to end – from the device, user, application, transmission, and though to the data source



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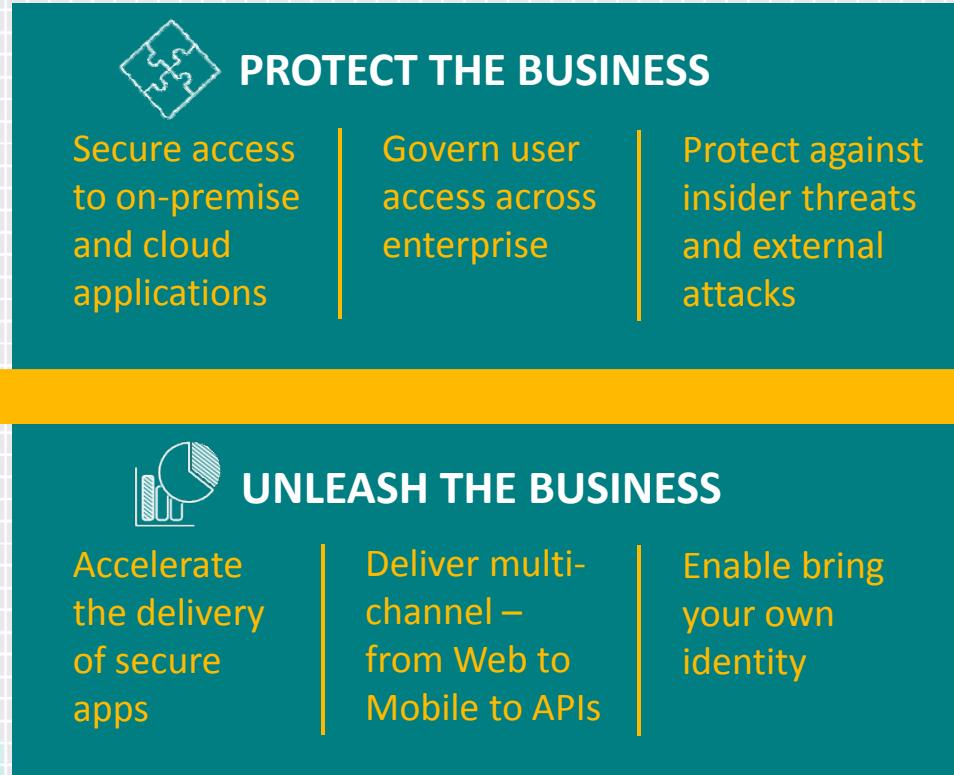
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Security Spend Must do More than Just Secure

Sell the business on business value



Cloud Services



On Premise Apps

Success is the result of right choices.
Choose your waves wisely.

Unknown surfer, March, 2015



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rewritten by software™

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