**CA Mobile Solutions** 

"Mobile App Analytics Positioning and Use cases"

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## THIS IS THE AGE OF THE APPLICATION ECONOMY

1.11

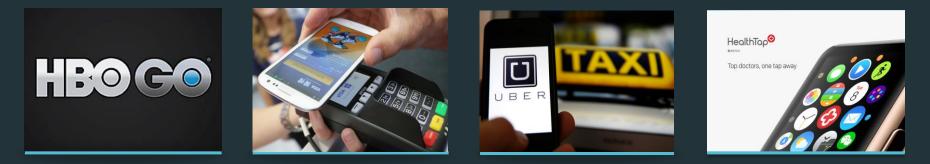
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AND IT'S ALL ABOUT THE

## Mobilizing The Application Economy

Growth & Opportunities





## SO WHAT'S **DIFFERENT**?



#### Impact on Stakeholders

#### **LINE OF BUSINESS**

QUICKLY ADAPT BUSINESS PROCESSES TO ENGAGE CUSTOMERS IN NEW AND CREATIVE WAYS

#### **SECURITY**



FINER-GRAINED ACCESS AND CONTROL WHO can run apps. WHAT apps can be accessed. WHERE and WHEN apps are run. HOW data is stored.

DEVELOPMENT



DELIVER QUALITY APPS FASTER Streamline and automate development and release processes. Leverage detailed analytics to improve mobile apps quality and performance.

#### **IT OPERATIONS**

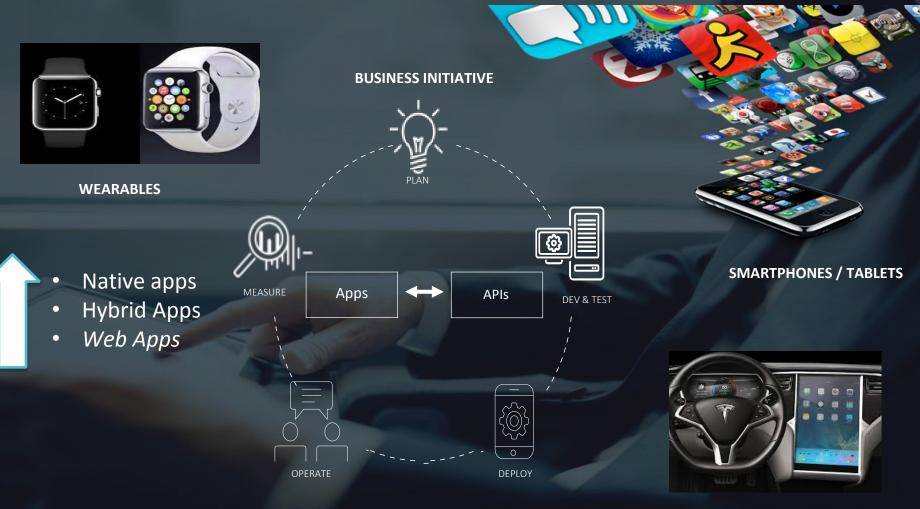


BETTER INSIGHT

Breadth and depth of visibility into mobile app performance, crashes and end-user behavior.



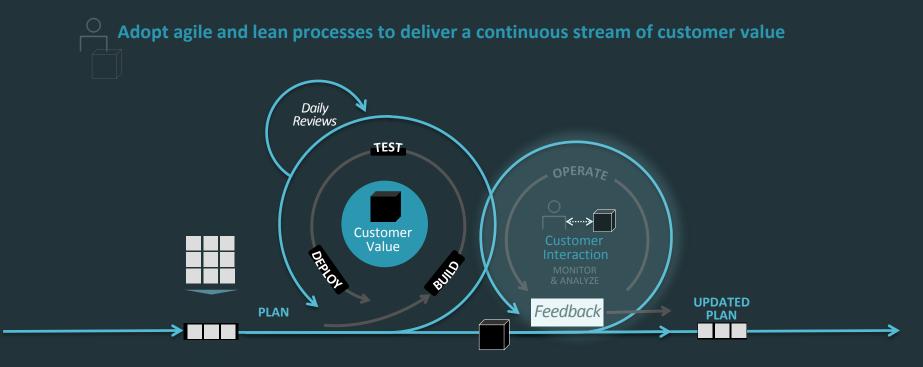
#### Omnichannel world – sets new requirements



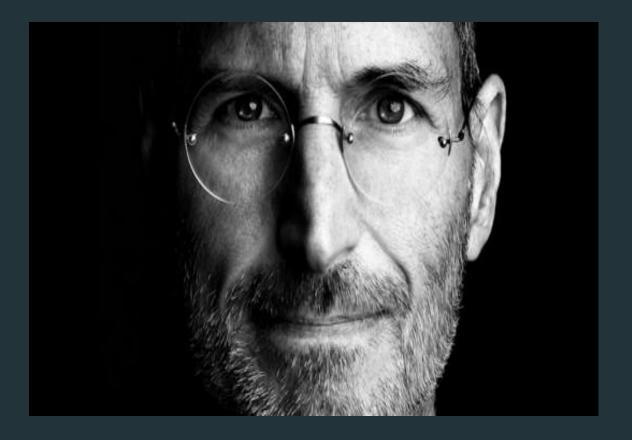
ΙοΤ



## Process: Agile isn't Just for Development





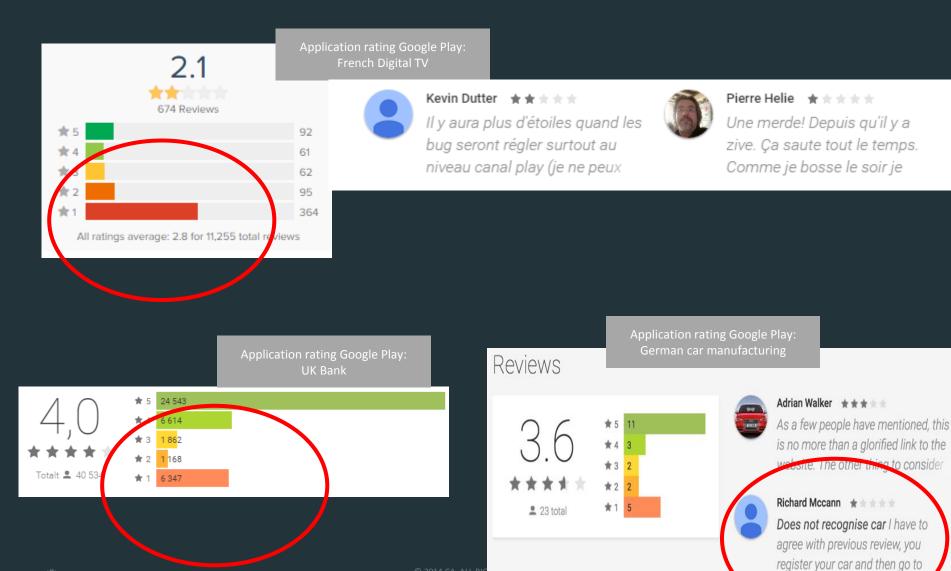


«you have to start with the customer experience and work backwards to the technology»

Steve Jobs

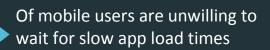


## It's not all about apps, it's all about user rating & success!



#### Users Hold the Power And They Demand Perfection

67%



"Crashes" is one of the most common words in 1-star reviews

27%

 $\star \star \star \star \star$ 

Of users will consider abandoning a brand over a poor application experience





## How to Succeed in the Mobile App Economy



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ANALYTICS

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APPS

#### DevOps for Mobile

App Loar

Check Out

Sidn In

Shoo - View Product

Transactions

O APP LOAD O CHECK OUT O SIGN IN O SHOP - VIEW PRODUCT O ADDED ITEM TO CART O COMPLETED PROFILE O EDITED PRO

2.7%

**‡ AVG DURATION** 

95

11.255

12.255

8.25s

Incomplete Transactions

1338

1194

695

8.1%

Slow Transactions

# INCOMPLETE

15

¢ # SLOW

13

10

13

6

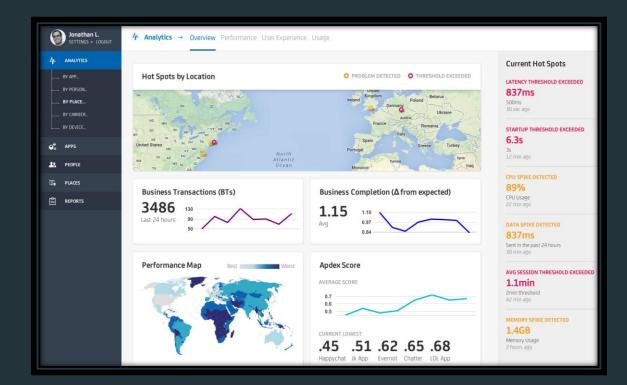
for faster time to market & a competitive edge



Customer Purchase, Book Flight



#### CA Mobile Application Analytics Comprehensive visibility into your mobile apps



- END-TO-END. Transaction visibility, from mobile to all the way to the mainframe and other backend systems.
- ANALYTICS AT EVERY STAGE of the App "Lifecycle".
- **DEEP VISIBLITY** into app performance and usage.
- FLEXIBLE cloud-based or on-premise deployment.
- SIMPLE & EASY. Five steps in five minutes.



## So who wants Mobile Analytics/mAPM? Buyers and personas: their needs





#### **Mobile App Analytics - Fosters Collaboration**

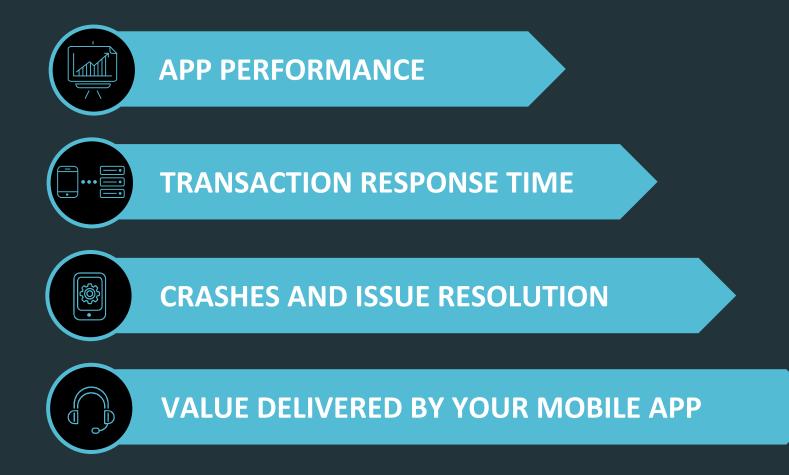


#### **Success Requires Collaboration from Stakeholders**

ACTIONABLE ANALYTICS, RAPID ANALYSIS, DEEP VISIBILITY Data-driven decisions & Continuous improvement



### Key areas affecting End-User Experience !





Visualise, Understand Impact and be Proactive

Who is using our apps?

Where and When are they being used?

What are my users doing with our apps?

What is their experience like?

#### Can I Help users get more value?



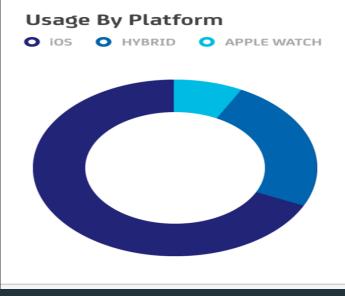
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#### **Agile Operations Innovations**



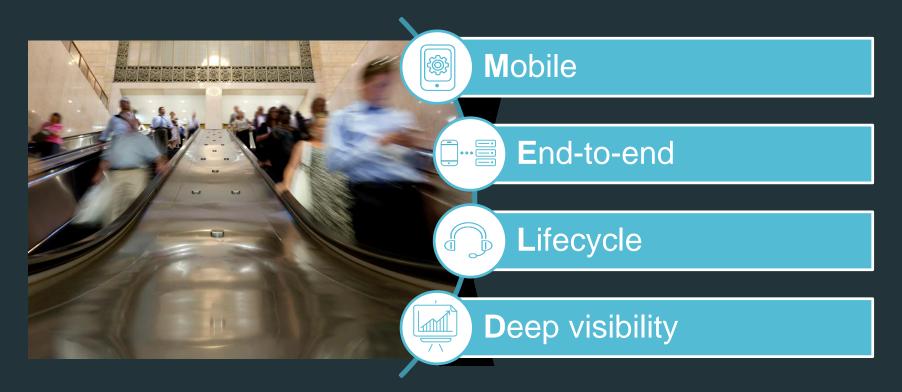








#### Why CA Mobile App Analytics ?



#### Thrive in the Mobile App Economy with the M.E.L.D. Strategy



## Where does CA Mobile App Analytics fit ?

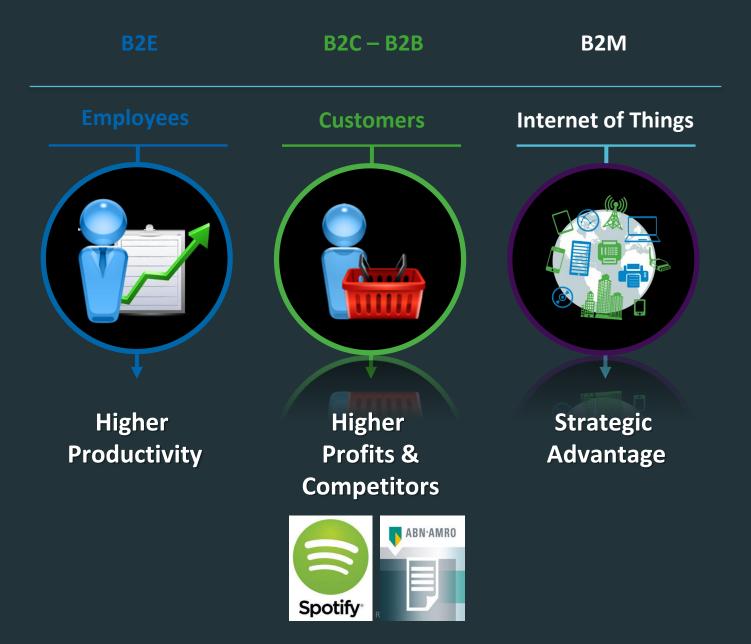
- ✓ Large / Midsize companies
- Companies with a high Consumer focus
- Companies that have started the Digital transformation
- ✓ .....OR new digital players
- ✓ Selected verticals
- Existing or new CA APM customers
- ✓ Companies with Supported Apps (OS) in volumes
- ✓ Consumer apps or internal enterprise apps
- ✓ Business critical / mission critical apps



**Digital transformation** 



## Mobility is driving the App Economy – What Apps ?





## Use cases/references Mobile App Analytics



## What use cases and verticals !

Large consumer base! - Business critical! - Existing Mobile Apps!VerticalsKey mobile apps✓ Bank / FinancialMobile banking

- ✓ Telco
- ✓ Retail
- ✓ Media
- ✓ Transportation/logistics
- ✓ Healthcare
- ✓ Public

Mobile banking Digital TV /Music streaming mPayment / mCommerce Digital news mReservation mHealth

mPublic service

**Digital transformation** 



## Case Study: A Multi-national bank

#### Situation:

- Good control of Web banking and Core Banking APM in place
- ✓ Understood that mobility is a challenge
- ✓ Act faster when resolving problems
- $\checkmark$  The issue was driven initially from the IT Operation
- ✓ It was a challenge when crossing different parts of the company
- Looked for a "Glue between different departments"
- ✓ Help to "break the glass" between different silos

#### Problem:

- ✓ Problem with network performance / crash of mobile banking app
- $\checkmark$  Did not get the insight needed to solve the problem fast
- ✓ Difficult to get resources from different groups to cooperate fast





#### Case Study: A Multi-National Bank End-to-end txn. visibility w/APM from mobile to mainframe



#### SITUATION

- Top-20 global bank with
  over 100M customers
- Goal to become the bank of choice for digital customers
- Key partnership to support mobile payments for consumers
- Over 2 million mobile banking customers

#### CHALLENGES FACED

- Partial visibility with Google Analytics "I know something is wrong. But I can't tell where the problem is."
- Lack of visibility into business metrics such as user retention
- Lack of visibility into crash and performance metrics

#### **SOLUTION & RESULTS**

- Wrapped CA MAA on top of Android app for quick proof, then integrated MAA SDK
- Captured metrics from user retention to stack traces
- Gained end-to-end transaction visibility from mobile to mainframe, with APM



Interested in <u>ensuring Mobile</u> <u>Application Performance</u> for business critical and customerfacing applications



#### Point Of Sale application for retail locations





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#### Case Study: A Large Wireless Provider Visibility into app/network challenges impacting revenue

# Stats from Devices

#### SITUATION

- Top-10 wireless provider with over 50M subscribers
- Thousands of stores and POS mobile apps that drive revenue
- Ensure mobile app performance for businesscritical and end-user apps

#### CHALLENGES FACED

- Unresponsive POS mobile app hurting device sales and service upgrades
- "How can I know what users are seeing? App works fine here in my Dev"
- Lack of visibility into performance of key business services

#### **SOLUTION & RESULTS**

- Deployed CA MAA in conjunction w/existing investments in APM
- Deep visibility into network performance
- Crash reporting and user activity at crash time
- App business transactions and usage by geo, device



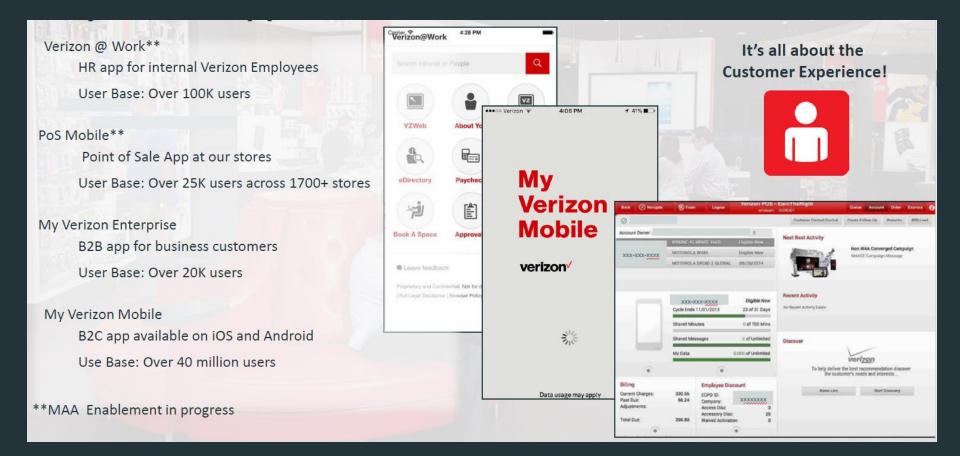
#### **About Verizon Wireless**



- Wholly owned subsidiary of Verizon Communications
- ~110.8 million retail connections
- ~2330 locations
- US \$127.1 billion 2014 revenue Verizon Communications
- ~177,000 employees Verizon Communications



## Key Verizon Mobile Apps





## What are Verizon Mobile Apps Trends & Challenges ?

#### Mobile Applications are growing in the Enterprise across channels/departments

- Mission Critical Apps: Retail, Call Centers, Indirect, B2B, HR
- User base of mobile apps is increasing quickly
- Every milli-second counts for apps that are critical to our business

#### Highly complex applications with frequent releases/changes & large multi tiered infrastructures/networks

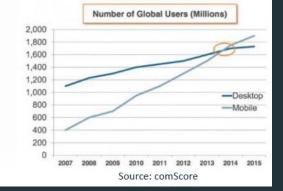
- Many apps over a million lines of code
- Most Transactions traverse over 6 tiers, over 25 dependent apps/systems, peripherals, networks
- Most apps are hybrid apps (Webview Browser bundled into a native app to leverage existing web apps)

#### Limited visibility of Customer Experience & end to end flow starting with the mobile device

- Problems identified by customers not detected by existing tools
- Limited end to end visibility in context with business transactions, network, datacenter

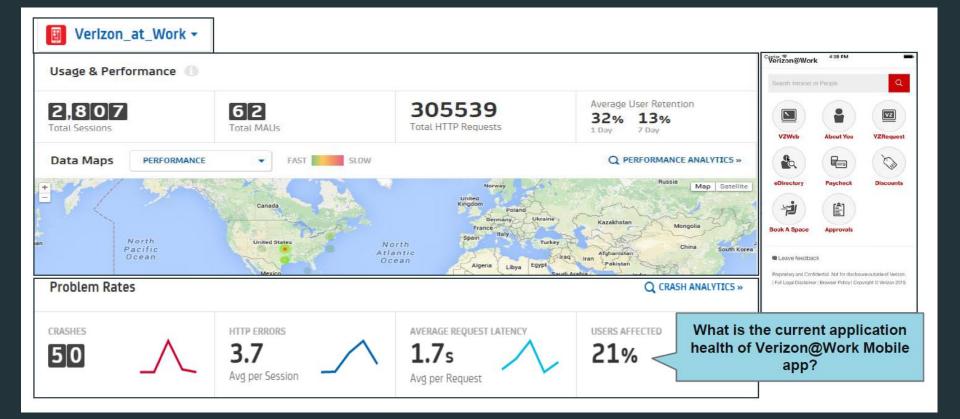
#### Real world scenarios are not fully understood and tested

- App/Network/Device latency (Variability in app load, WiFi, 3G/4G, Device CPU/Memory)
- Critical App Flow navigation by users



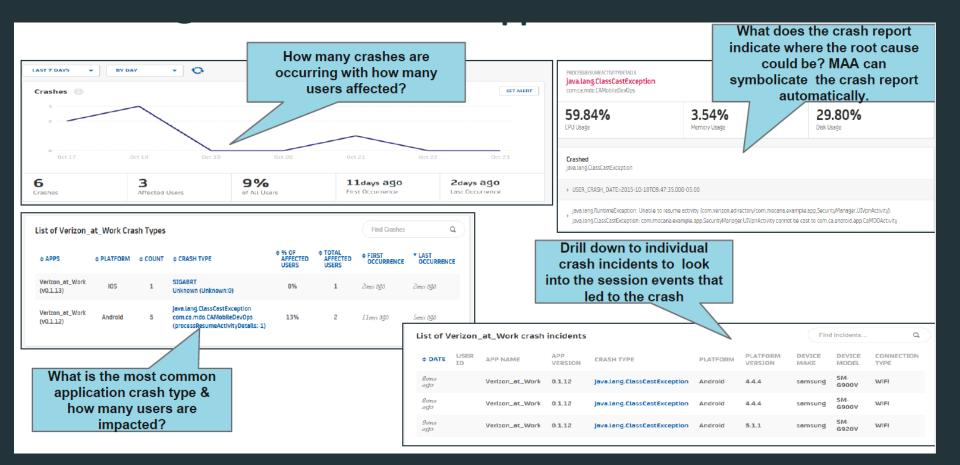


## Verizon@Work – Use case Overview



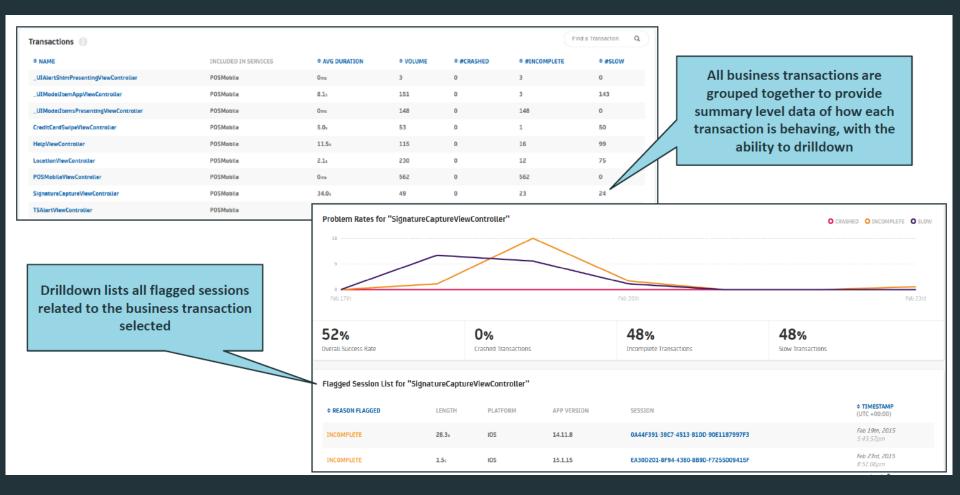


#### Verizon@Work – Use case App Crash



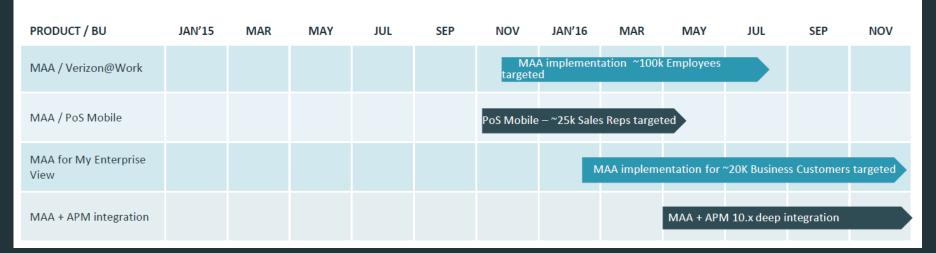


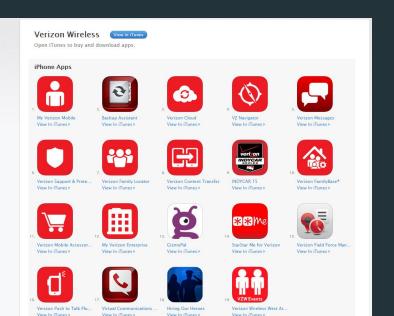
#### Mobile POS – Use Case – Retail store slow transactions





## Verizon MAA implementation timeline









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#### Summary A Few Words Review

#### End to End Visibility

CA MAA & APM tools will help provide end to end app architecture visibility/insight to app development, operations, business app owners and network operations folks

#### Enhanced Data Analytics

Leverage Differential & Predictive Analytics to support proactive monitoring & alerting in prod/non prod before an actual crash/decreased performance as well as help with improving testing scenarios

#### Customer Experiences

Using MAA and APM on Verizon's IT infrastructure has helped prioritize focus on critical impacting crashes over other issues to support an optimal user experience and high productivity



Mobility – means we need to change some focus !

## Test it live ! "CA Mobile App Analytics"

**Request trial:** 

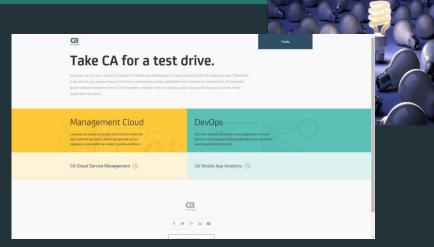
<u>http://www.ca.com/trial</u>

Product info:

<u>http://www.ca.com/maa</u>

Monthly MAA webinars:

cainc.to/pPmuZZ



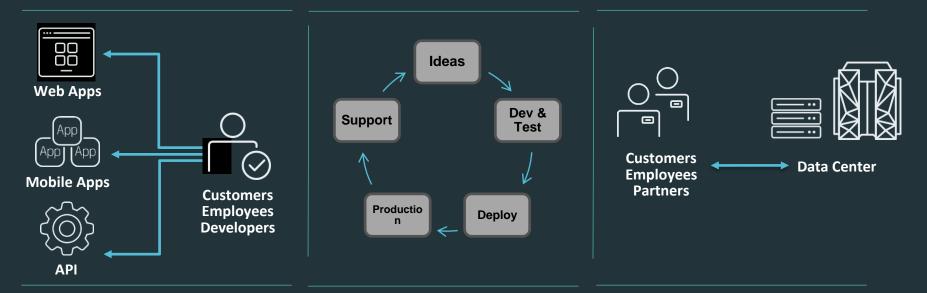


#### CA Solutions addressing the App Economy !

## OMNI-CHANNEL ACCESS (WEB, MOBILE, APIS)

#### COMPLETE SUPPORT OF APP DELIVERY LIFE CYCLE

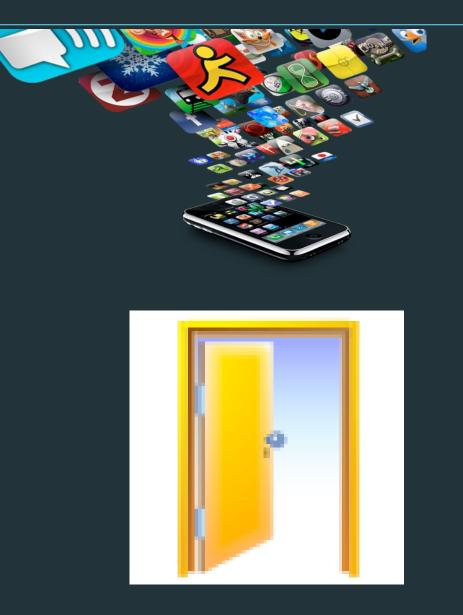
#### **END-TO-END INSIGHT**



app-savvy partner to support your mobility journey



## Mobile Analytics- the "Insight" and door to AppEconomy !





## Thank You !

## Please contact us for further questions / support !

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