

Mobile SDK Trends & Implications: Delivering Quality Mobile Apps with HPE Mobile Center

February 15, 2017

Today's Speakers:



Ronnie Sternberg
Co-Founder & VP Business
Development
SafeDK



Kimm Yeo
Hewlett Packard Enterprise
WW Sr Product Mktg Mgr



**Hewlett Packard
Enterprise**

The Webinar will begin shortly.

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vivit

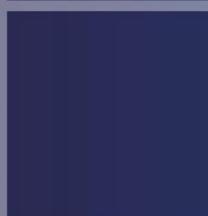
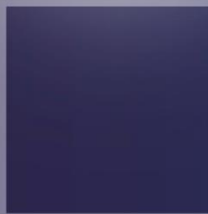
Discover the independent HPE software
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share, collaborate, exchange, and grow



ADVOCACY



COMMUNITY

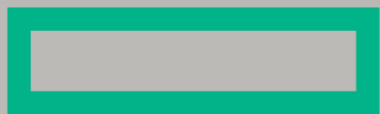


Mobile SDK Trends & Implications: Delivering Quality Mobile Apps with HPE Mobile Center February 15, 2017



EDUCATION

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Milan Danrel
Consultant
Machine Data Systems
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Webinar Housekeeping



The screenshot displays a webinar interface with a sidebar on the left and a main presentation area. The sidebar includes a logo/picture section with the Vivit logo, a Q&A section with a text input field and an 'Ask' button, and a download files section with a table showing no files found. The main presentation area shows 'Slide 2 of 27' with a collage of images and text. The central text reads 'Building the DevOps Tool Chain January 17, 2017'. Other visible text includes 'vivit', 'Discover the independent HPE software user community where you can share, collaborate, exchange, and grow', 'COMMUNITY', 'EDUCATION', and 'ADVOCACY'. A red arrow points to a small rectangle in the upper right corner of the presentation pane.

Slide 2 of 27

LOGO/PICTURE

Q&A

Ask a question

Ask

DOWNLOAD FILES

File Name	Size
No file Found	

Folder: All Files

Discover the independent HPE software user community where you can share, collaborate, exchange, and grow

COMMUNITY

EDUCATION

ADVOCACY

Building the DevOps Tool Chain
January 17, 2017

Dial-In #: VoIP or 415-926-7795 or [International Numbers](#) Conference ID: 0866-2702 User ID: 280895

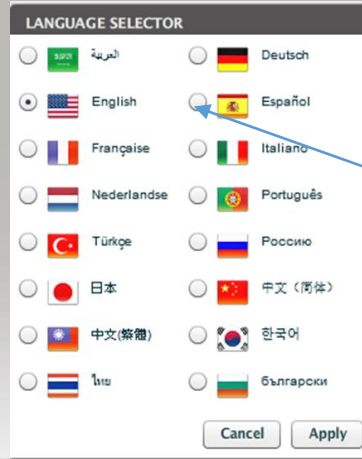
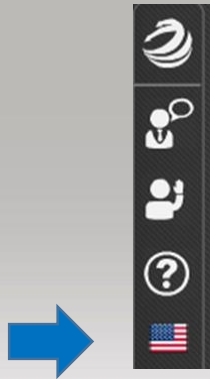
- This “LIVE” session is being recorded
- Recordings are available to all Vivit members
- To enlarge the presentation screen, click on the rectangle in the upper right hand corner of the Presentation pane



YOUR INDEPENDENT HPE SOFTWARE USER COMMUNITY

Webinar Control Panel

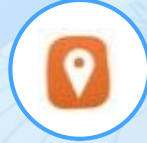
- Session Q&A:
Please type questions in the Q&A pane and click on “Ask”
- Choose the language in which you would like to ask your questions





SafeDK
in-app protection

Ronnie Sternberg
ronnie@safedk.com
www.safedk.com

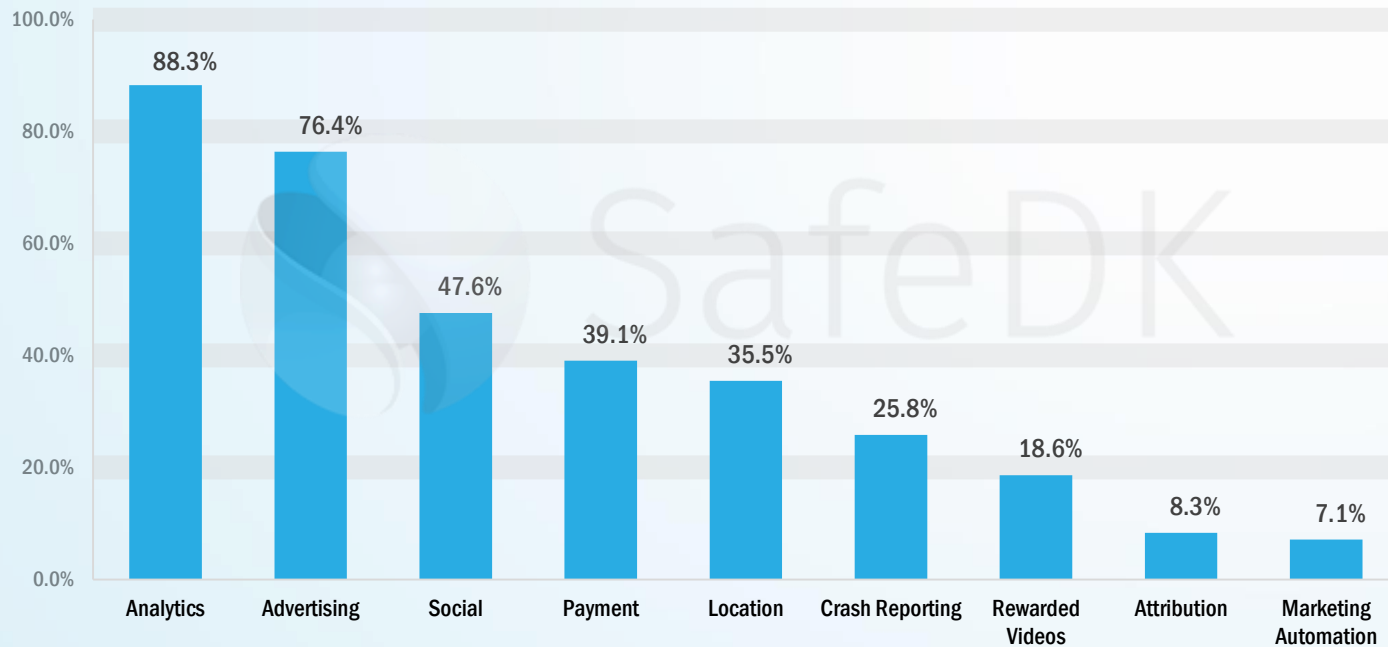


AVERAGE OF

13

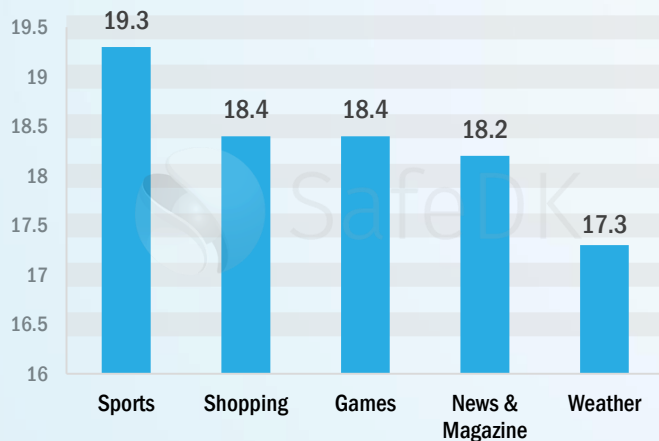
SDKs in Apps

THE POPULAR KIDS

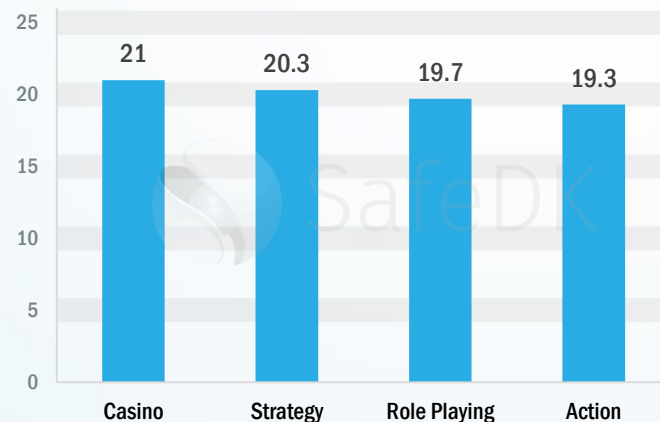


THE HEAVIEST SDK USERS

App Category | AVG. # of SDKs



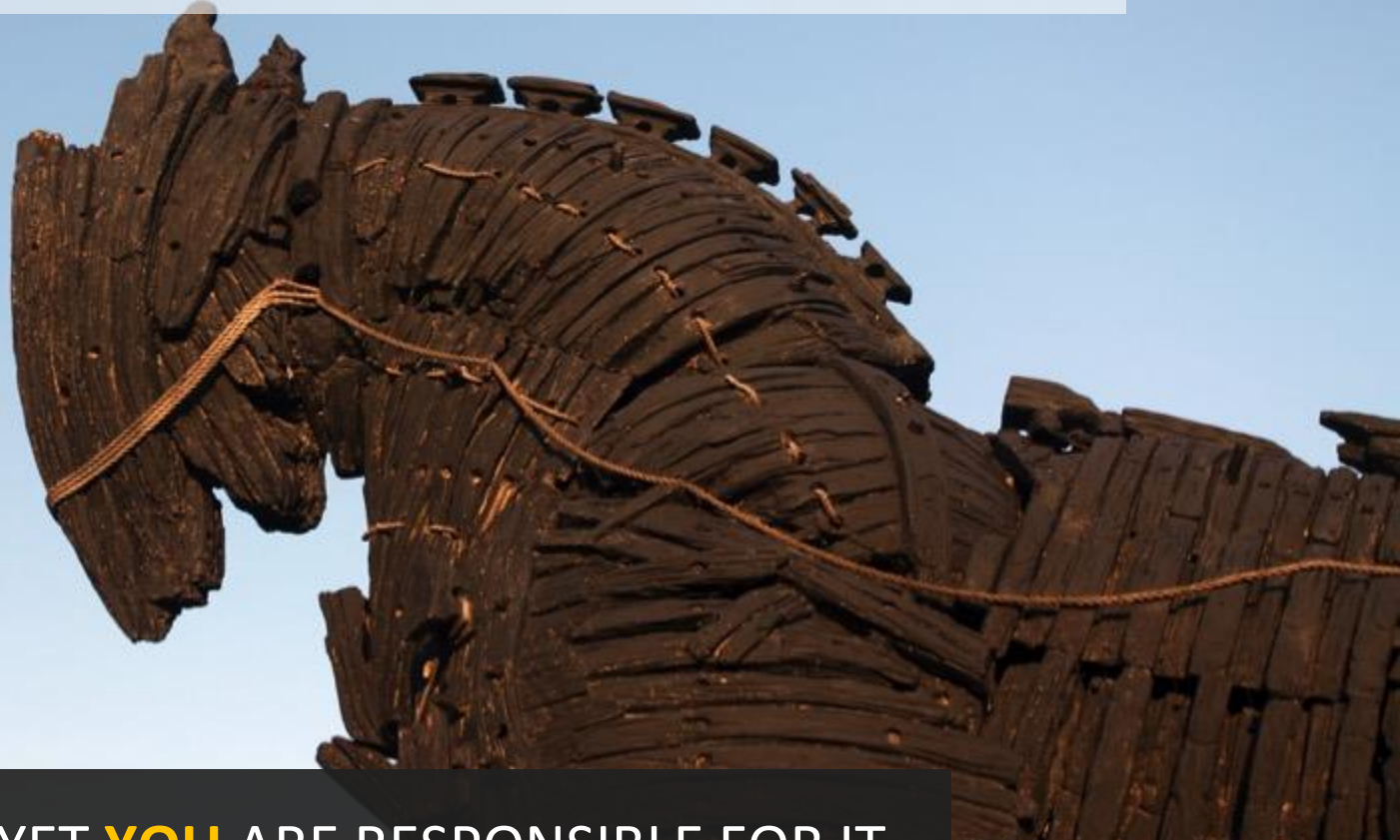
Game Category | AVG. # of SDKs





WHY IS IT A PROBLEM?

IT IS **SOMEONE ELSE'S CODE** INSIDE YOURS



YET **YOU** ARE RESPONSIBLE FOR IT

SDK-RELATED RISKS

Security & Privacy

Quality of Service

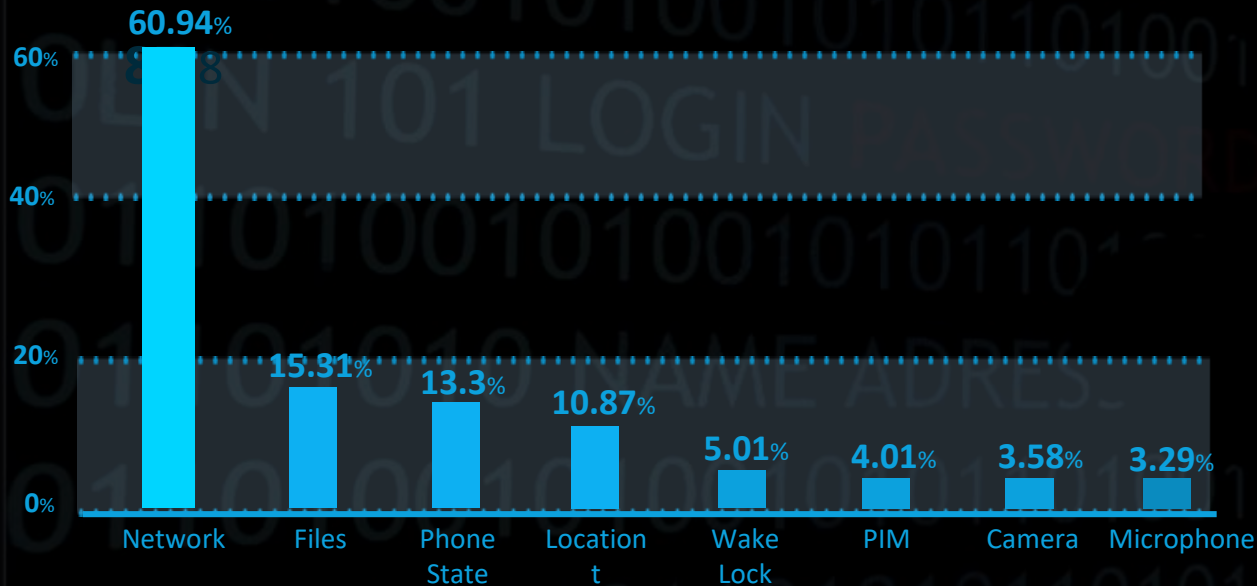


The Dark Side of SDK Permissions

```
if (context.checkSelfPermission(  
    "android.permission.ACCESS_FINE_LOCATION")) {  
    Location userLocation =  
        locationManager.getLastKnownLocation("gps");  
}  
  
if (hasEmailPermission()) {  
    Pattern emailPattern = Patterns.EMAIL_ADDRESS;  
    Account[] accounts =  
        AccountManager.get(this.mContext).getAccounts();  
    ...  
}
```



SDK Permissions: What They Don't Tell You



- 16.59% of SDKs access the list of installed apps
- 9.3% of SDKs access Accounts
- 4.16% of SDKs access Microphone



I Know What Your SDKs Did Last Summer

Trojan in 155 Google Play Android Apps Affects 2.8 Million Users

Hundreds Of Apps Banned From App Store For Accessing Users' Personal Information

Posted Oct 19, 2015 by [Sarah Perez \(@sarahintampa\)](#)

SMS Stealing Library Found in 18,000 Android Applications

By [SecurityWeek News](#) on October 23, 2015

Bunk Baidu SDK puts backdoor on millions of Android devices

by [Andrew Tarantola](#) | [@terrortola](#) | November 2nd 2015 At 4:31pm



Security & Privacy

Bad News from Badnews



Security & Privacy

COPPA 2.0: Kids Privacy in Focus



Security & Privacy

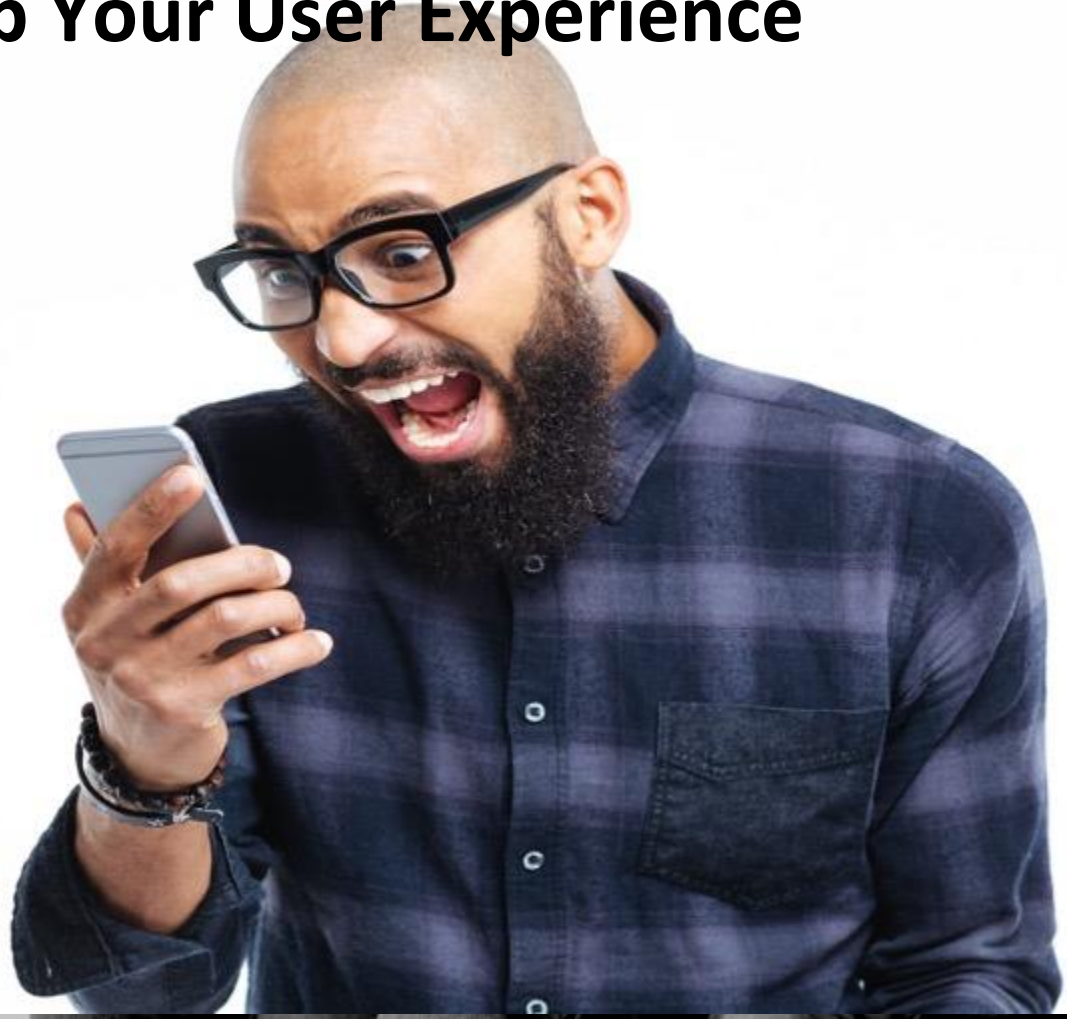
SDK-RELATED RISKS

Security & Privacy

Quality of Service



Messing Up Your User Experience



Quality of Service

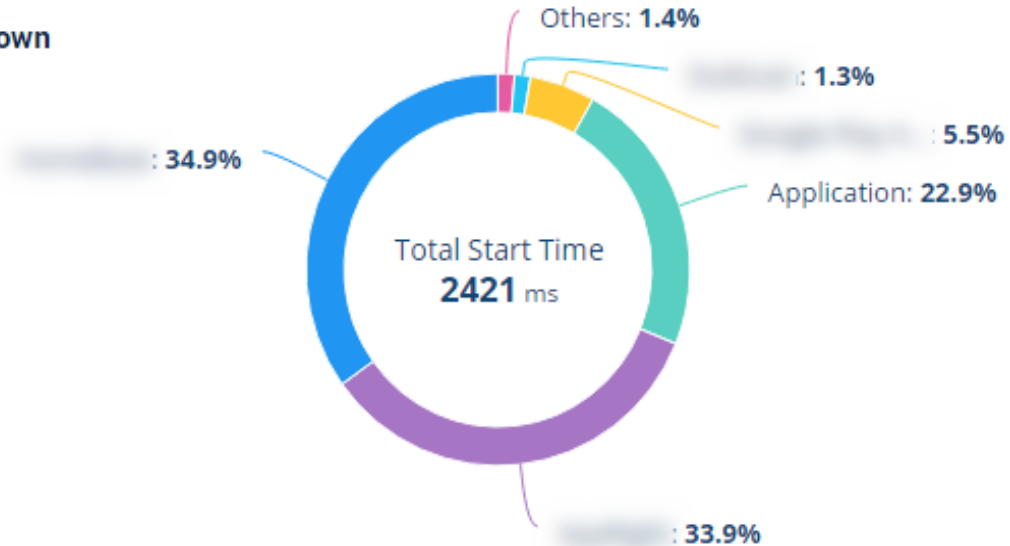
Who's Slowing you Down?



Quality of Service

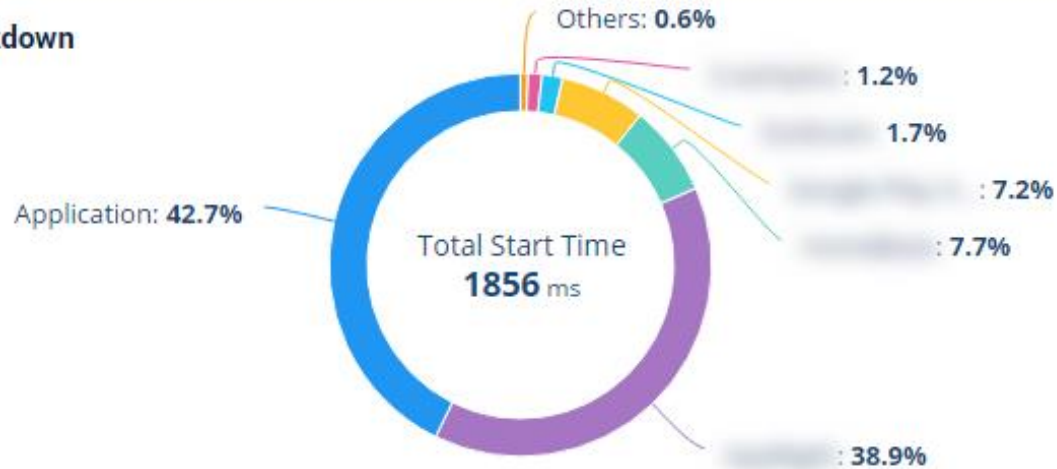
App Start Time

Start Time Breakdown



App Start Time: 2nd Time's a Charm

Start Time Breakdown



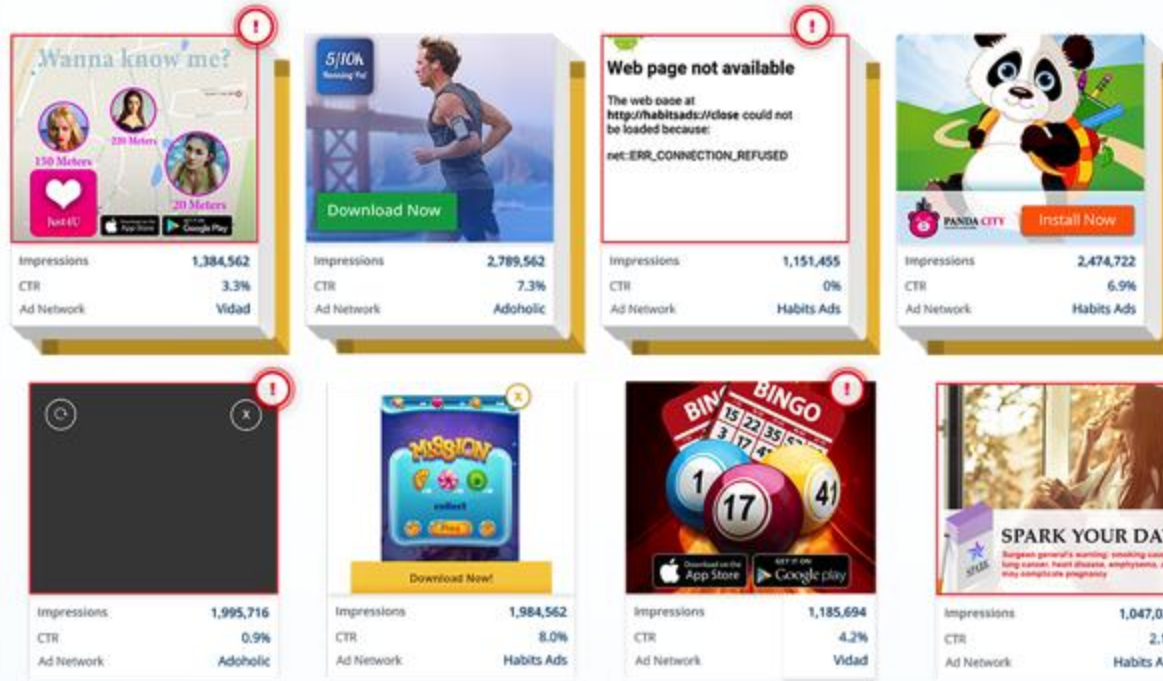
Who's Crashing your Party?

Crashes



Quality of Service

Wrong Place, Wrong Time



Quality of Service

WANTS TO DEVELOP AN APP



TOLD SHE CAN'T USE SDKS

STOP SCARING EVERYONE!



NO ONE IS GOING TO STOP USING SDKS

WHAT CAN YOU DO ABOUT IT?

Do it Yourself



Use Popular Ones



Ask Friends



SAFEDK OFFERING



MONITOR AND CONTROL SDKS
IN REAL-TIME



The SDKs 'App Store'



BUSINESS INTELLIGENCE
FOR MOBILE SDKS



When throwing a great party, be careful of any guests that might spike the punch



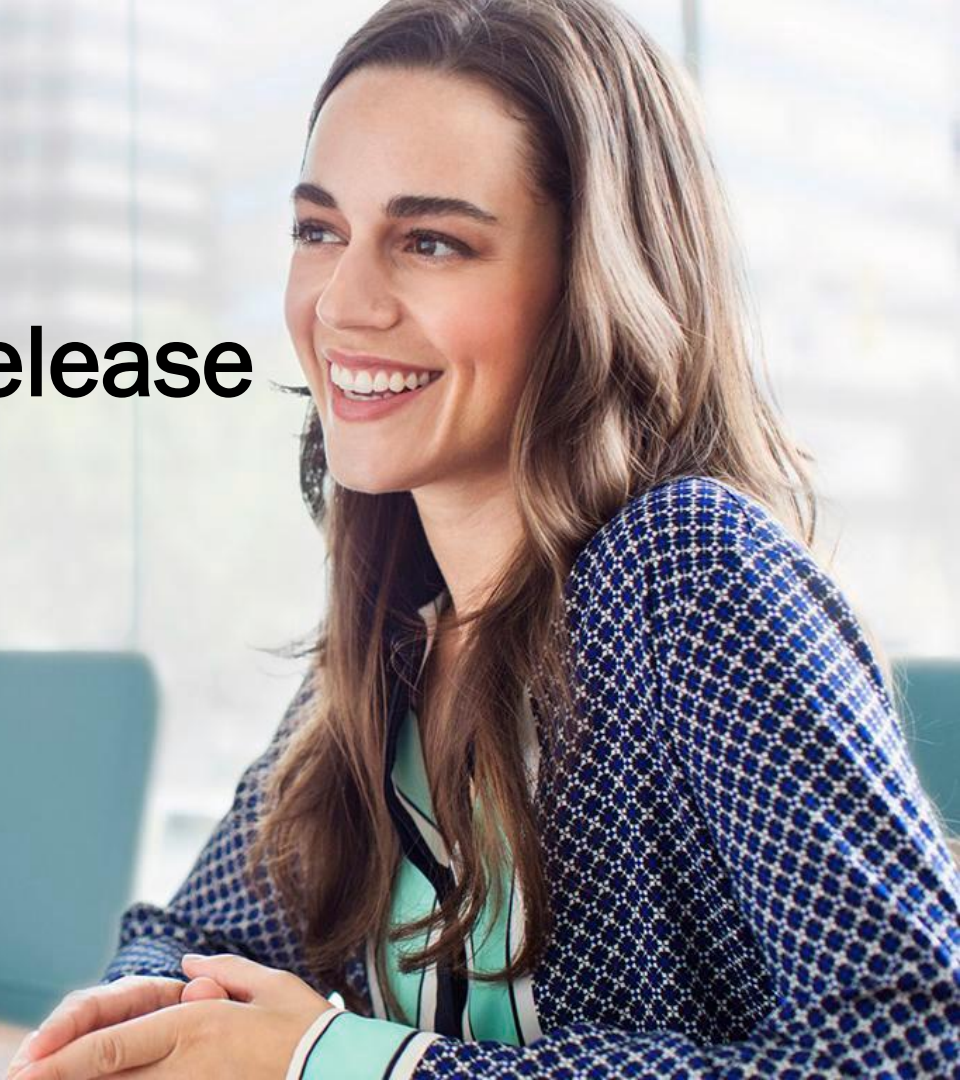


Hewlett Packard
Enterprise

HPE Mobile Center release 2.2

Kimm Yeo
Senior Product Mktg Mgr

Feb 15, 2017



Give users what they want – or you'll get the finger!

- Today's customer has little patience for slow performing, battery hogging, crashing mobile apps.
- Fix these problematic issues or they will delete you.



49%

expect a mobile app to respond in 2 seconds or less.



36%

stop using mobile apps because of heavy battery usage.



53%

uninstall or remove the mobile app when it stops responding or crashes.

“Mobile App Usage and Abandonment Survey” Dimensional Research, January 2015

The cost of poor application development and quality

Poor performance drives customers away:



Lost revenue

61%

of users are unlikely to return to a site if they'd had trouble viewing it on a mobile device

37%

of consumers will shop elsewhere if a mobile site or app fails to load in 3 secs.

Lost brand reputation

70%

of mobile transaction response time stems from the network

Lost customer

1 sec.

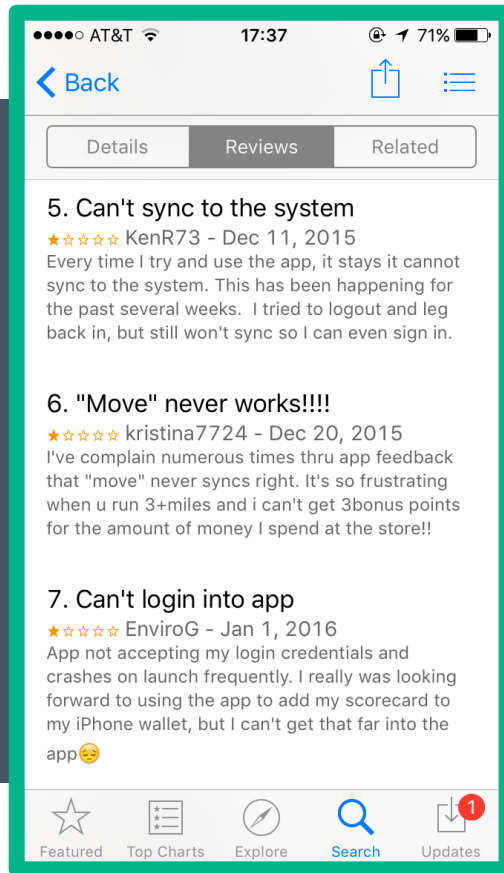
Is how long mobile devices have to respond to user input, in order to keep the user engaged.

Lost competitive advantage

Feedback is Important...

But it's not enough to ensure quality apps fast

Developers and QA
need more information
than this to accelerate
delivery without
compromising quality.



The challenges of setting the User Experience as the new SLA



Utility



Usability



Satisfaction, playfulness



Value



Resource consumption



Security



Aesthetics



Proactivity

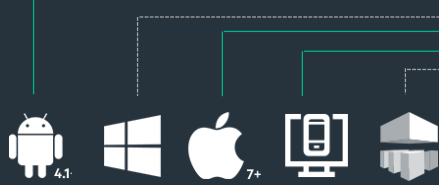
Device characteristics

Platform diversities

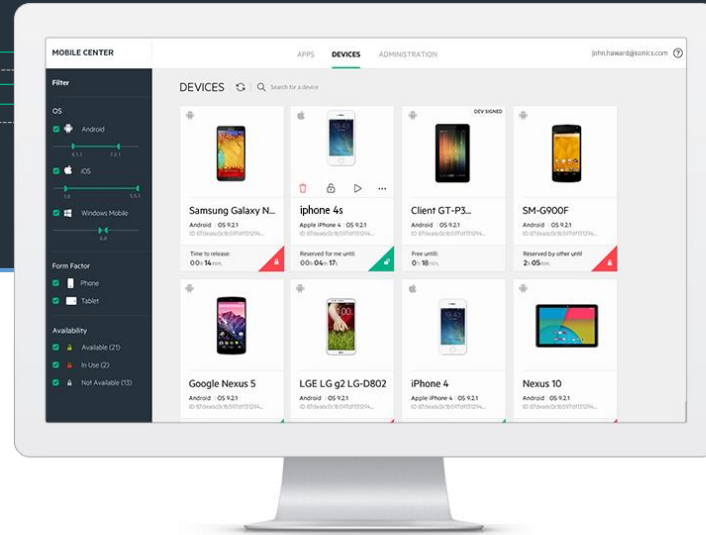
Users device choices, settings and context

Fragmentation of your own apps

HPE MOBILE CENTER



Android, iOS, Windows*
Private cloud of devices
Amazon device farm*
Google and Genymotion emulators



Free security scans
HPE Fortify



Mobile analytics
HPE AppPulse Mobile



Sentiment analysis
HPE Haven on demand

Application Delivery

Manual Testing
Sprinter

Functional Testing
UFT LeanFT
Selenium Appium

Beta/Crowd Testing
UberTester

Performance Testing
Load Runner StormRunner
Performance Center

Network Virtualization and Analytics

Operations Management

Mobile Monitoring
Mobile SDKs Scanning
AppPulse Active
Application Performance Management



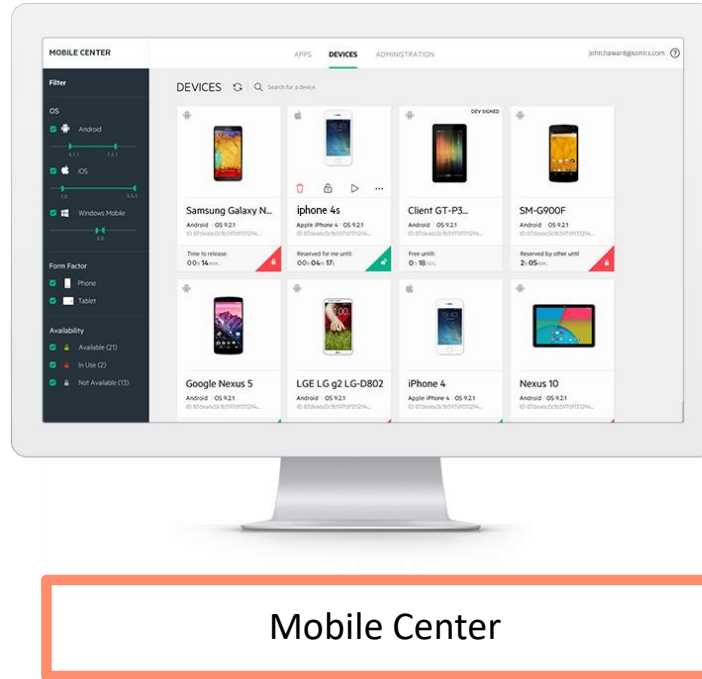
Hewlett Packard
Enterprise

HPE Mobile Center

Your single gateway to the mobile technology

Your private cloud

Real devices
Emulators

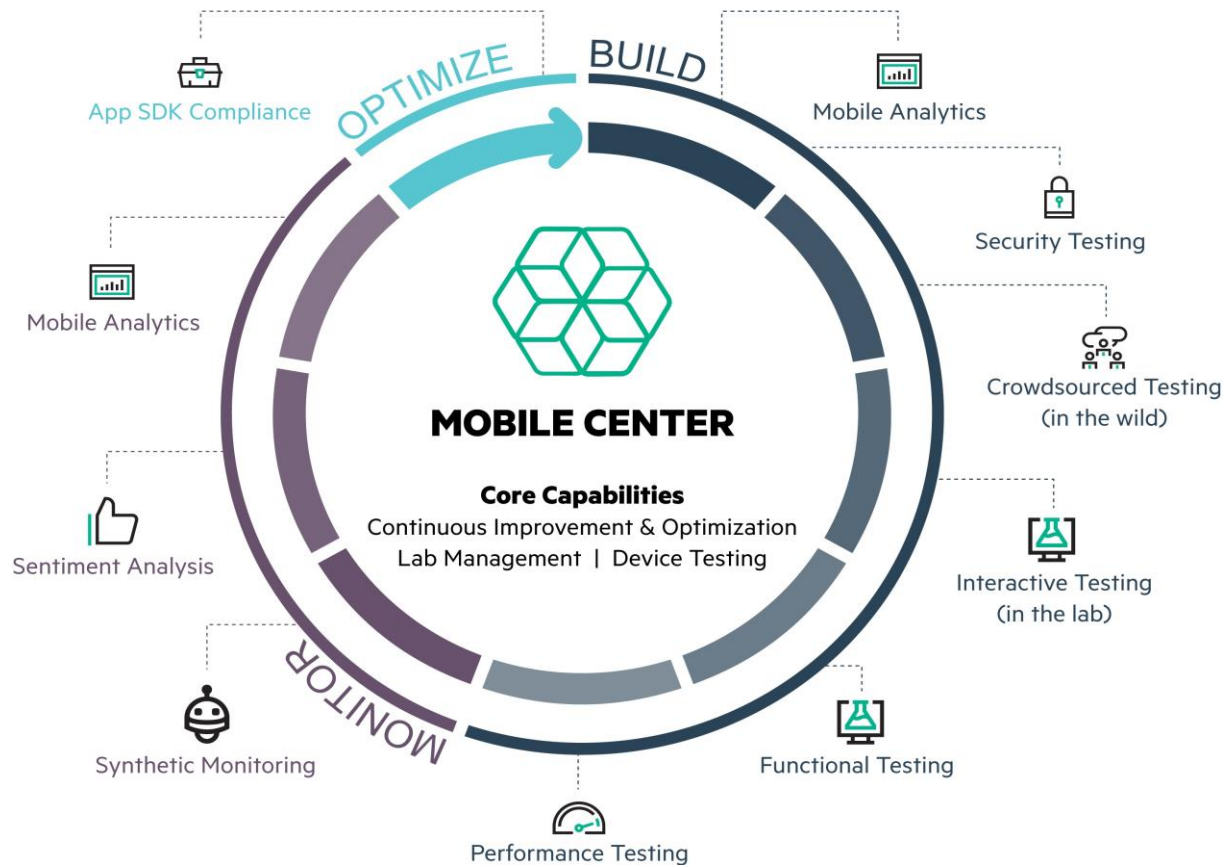


Mobile Center

Public cloud



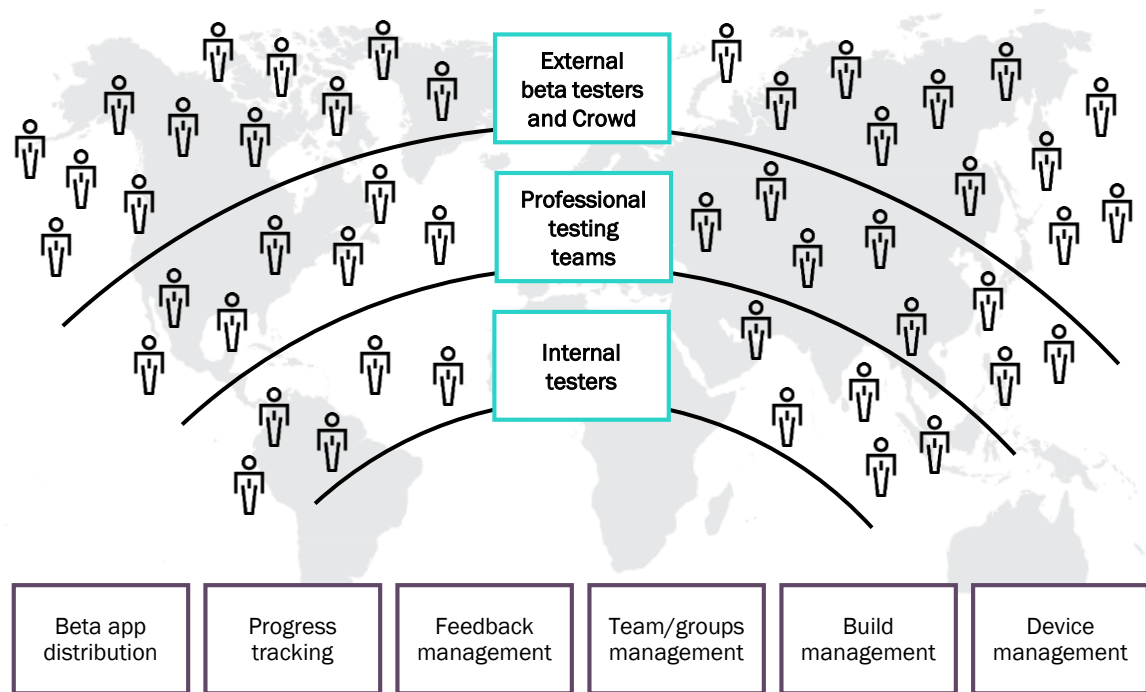
End to End Mobile Application Lifecycle Mgmt



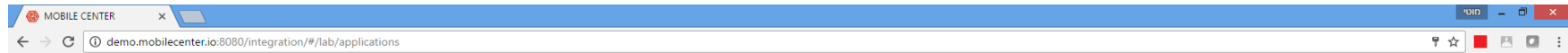
New crowd testing support

Now is the time

- Crowd testing defined
- Benefits:
 - Coverage
 - Time to Value
 - Cost
 - Scale



Mobile Center



MOBILE CENTER

DASHBOARD

APPS

DEVICES

ADMINISTRATION

admin@defa..

Filter

OS

- ☒ Android
- ☒ iOS
- ☒ Windows Phone

APPLICATIONS



Upload app

You can also drag and drop files here



MC Browser

Embedded mobile browser for running web pages



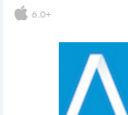
MC Browser

Embedded mobile browser for running web pages



MC Browser

Embedded mobile browser for running web pages



AMB

Upload 1
11/08/2016 10:45 AM
Phone, Tablet



Advantage

Upload 1
11/08/2016 10:45 AM
Phone, Tablet



AMB

Upload 1
10/30/2016 1:34 PM
Phone, Tablet



B.tv

Upload 1
10/19/2016 6:45 PM
Phone, Tablet



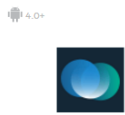
CJ온마트

Upload 2
10/18/2016 7:34 PM
Phone, Tablet



SmartBank

Upload 1
10/14/2016 12:16 PM
Phone



Personal Cloud

Upload 2
10/07/2016 7:52 PM
Phone, Tablet



TouchesNI

Upload 1
09/26/2016 2:28 PM
Phone, Tablet



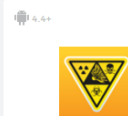
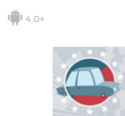
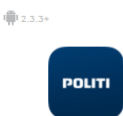
Advantage Shopping

Upload 1
09/26/2016 2:27 PM
Phone



HPE Support

Upload 2
10/21/2016 1:48 PM
Phone, Tablet



Users

Device Groups

Settings

Reservations

Licenses

ADMINISTRATION SETTINGS

- > PRODUCTION USAGE (APPPULSE INTEGRATION)
- > SECURITY SCAN (FOD INTEGRATION)
- > USER SENTIMENT (SENTIMENT ANALYSIS INTEGRATION)
- ▼ CROWD TESTING (UBERTESTERS INTEGRATION)

Organization token

The Ubertesters organization token

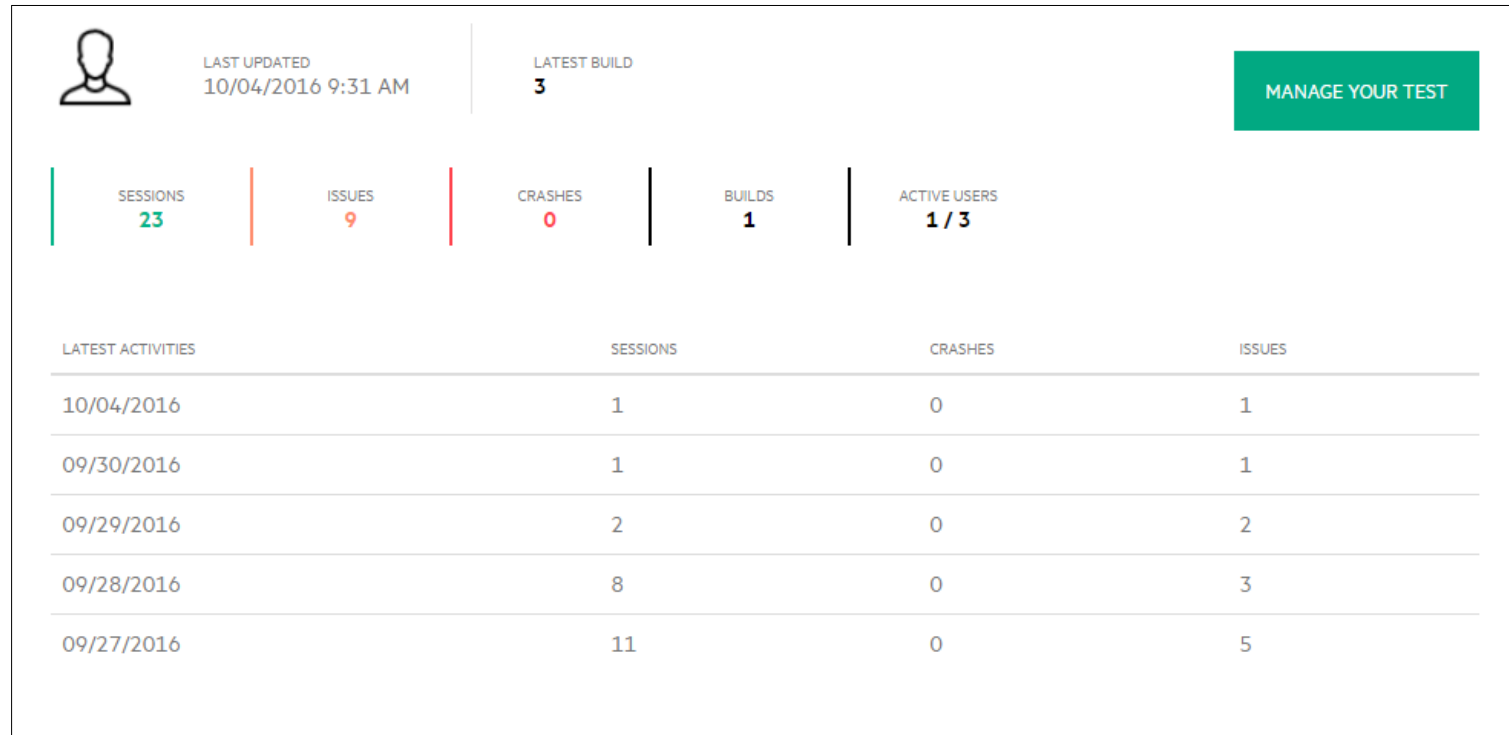
f8ed262c-7d84-11e6-a714-22000a9127ac

Enable Ubertesters

Enable the Ubertesters extended service.

☒ Yes ☐ No

Crowd testing extended services



SafeDK App X-Ray integration: SDK Scanning services

The screenshot displays the Mobile Center dashboard interface. At the top, there's a navigation bar with 'APPS', 'DEVICES', and 'ADMINISTRATION' tabs. The 'APPS' tab is active. On the left, a 'Filter' sidebar shows 'OS' with checkboxes for Android, iOS, and Windows Phone. The main content area is titled 'EXTENDED SERVICES' and lists several services: Security Scan, User Sentiment, Production Usage, Crowd Testing, App X-Ray (highlighted), and Real User Monitoring (RUM). The 'App X-Ray' service is expanded, showing details: 'SCANNED ON 09/26/2016 7:14 PM', 'YOUR APP CONTAINS 5 SDK(s)', and a 'RUN A NEW SCAN' button. Below this, a list of SDKs is shown: Acra (Testing, Crash Reporting), AppPulse Mobile (Crash Reporting, Analytics), ListViewAnimations (Tools), and NineOldAndroids (Deprecated). The 'NineOldAndroids' entry is highlighted with a mouse cursor. At the bottom, there's a row of app icons, including Angry Birds, a truck, a gas pump, a medical syringe, and others.

Details on deprecated SDK- NineOldAdroids

Dashboard [Jenkins] MOBILE CENTER SafeDK - NineOldAdroids

https://www.safedk.com/sdks/jake-wharton-nineoldadroids

Apps Jenkins

SafeDK Marketplace

NineOldAdroids | FREE | OPENSOURCE (APACHE 2.0)

by Jake Wharton

★★★★★ 2 reviews | 10000-15000 installs

Is this your SDK? Claim it!

Follow SDK Download SDK

Home / Jake Wharton / NineOldAdroids

Android library for using the Honeycomb (Android 3.0) animation API on all versions of the platform back to 1.0!

PLEASE NOTE NineOldAdroids has officially been shut down on Dec 20, 2014. No new development will be taking place. Existing versions will continue to function.

Use a large subset of the new-style animation with exactly the same API.

Main Features

- Easy To Use - No need to use more than one API
- Support - Includes support for animating rotation, translation, alpha, and scale on platforms prior to Honeycomb

version 2.4.0

[Documentation](#)

Example A

```
ObjectAnimator.ofFloat(myObject, "translationY", -  
myObject.getHeight()).start();
```

Example B

```
<dependency>
```

Leave a Message

HPE Mobile Center 2.2: New Active Directory support

AD/LDAP streamlines username/password access to Mobile Center



- No more manual entries
- Forget access list maintenance
- Streamline operations

Seamless Management & Access : HPE ALM Test Portfolio

The screenshot displays the HP Application Lifecycle Management (ALM) Test Portfolio interface. The main window shows a table of test results. A yellow callout box points to a red icon in the top right corner of the interface, with the text "Select device and application in Mobile Center".

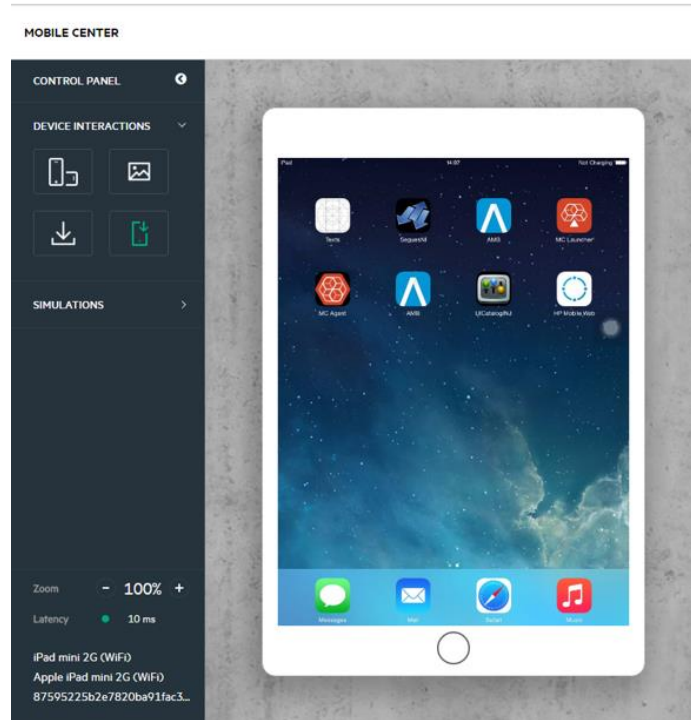
Name	Test: Test Name	Type	Status	Planned Host...	Device
HTFClientTest	TruClientNativeMobile24	VuGen-Script	No Run		Advantage Shopping, Version: 1, no packaged
HPncdemo	hpncdemo	MANUAL	No Run		Advantage Shopping, Version: 1, no packaged
HPchrometest	chrometest	QUICKTEST_TEST	Not Completed		
MobileWeb-Unit	MobileWeb-Unit	QUICKTEST_TEST	Passed		
Advantage-TruClient	Advantage-TruClient	VuGen-Script	No Run		Advantage, Version: 38, packaged

Lightweight, ad hoc testing from Mobile Center

A simple, browser-based way to experiment with an app

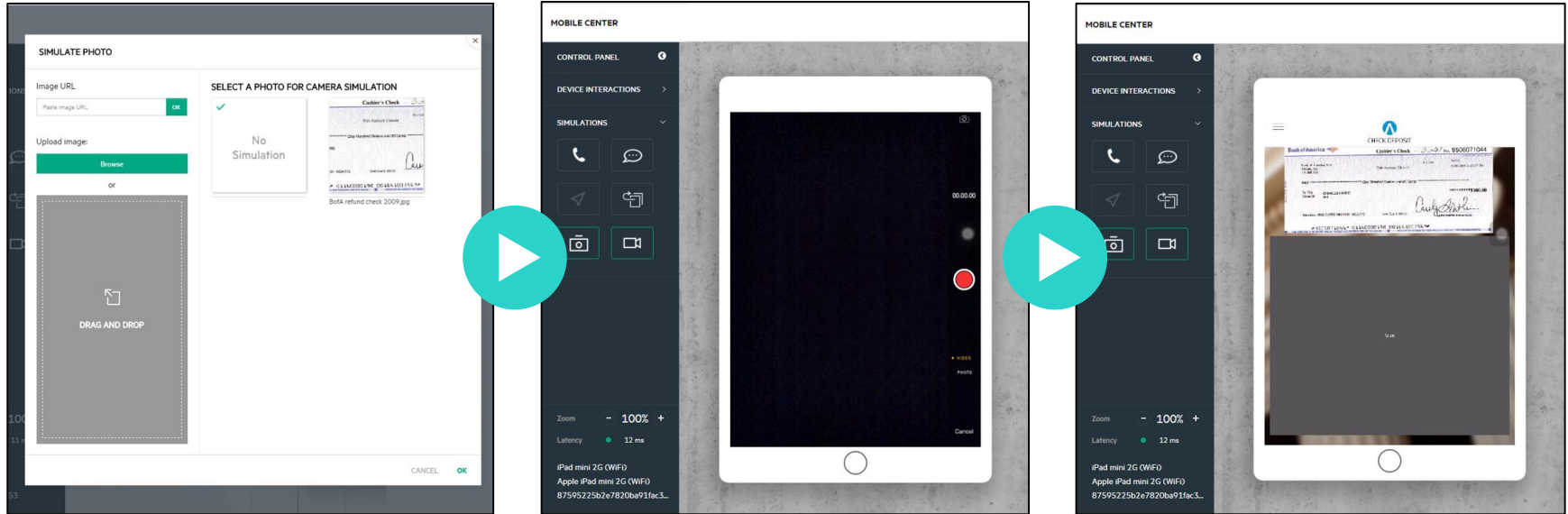
Simple steps for basic exploratory testing for bugs

- Install app on device
- Perform actions and simulate events
- Take snapshots
- Download logs
- Collect device metrics

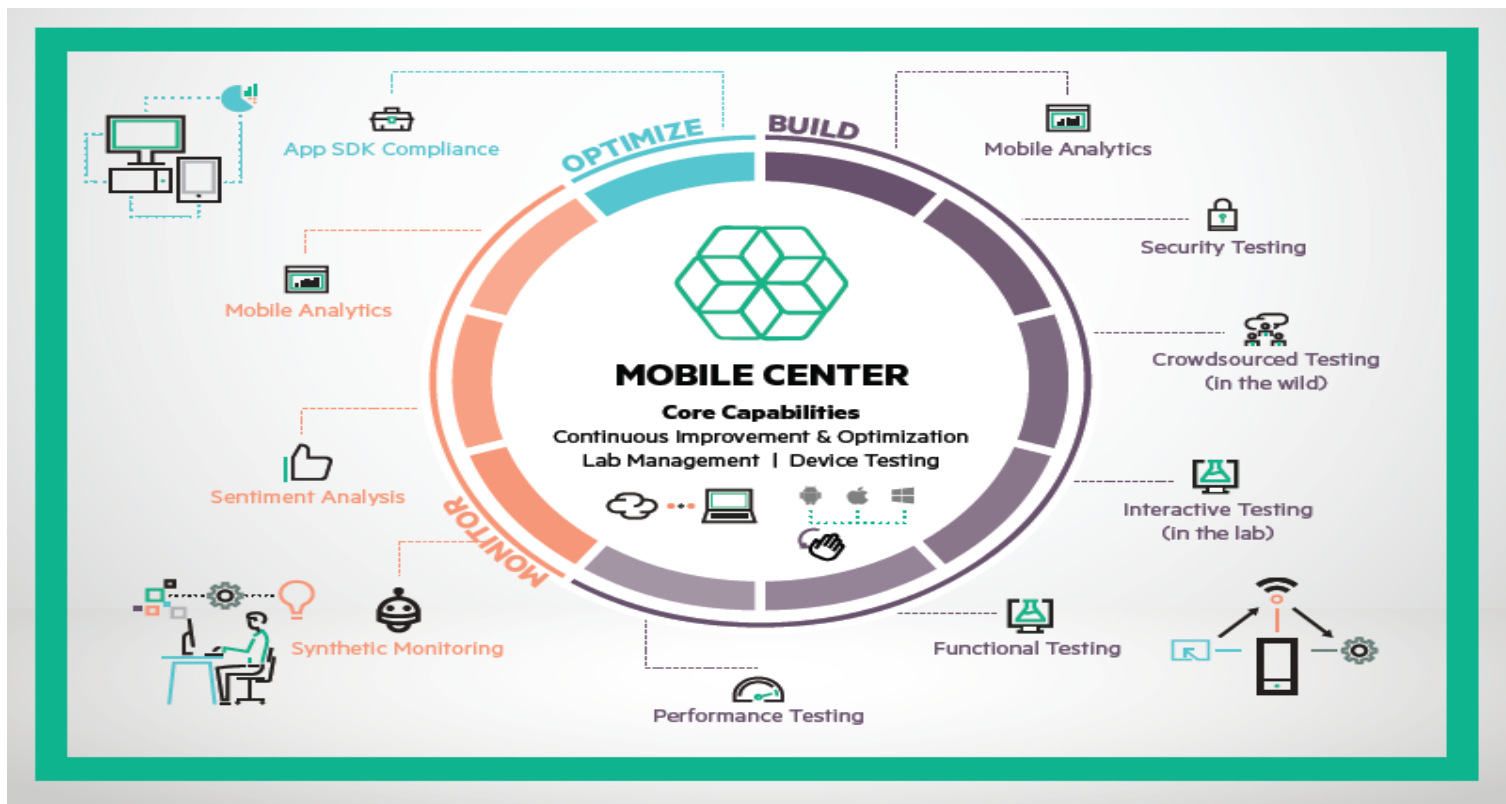


Complete functional test flow with photos and videos

Growing image use prompts expanded Mobile Center capability



HPE Mobile Center - end to end mobile application lifecycle mgmt



Continuous Optimization via end to end monitoring

IT Ops

3 UX professionals



The capability they need:

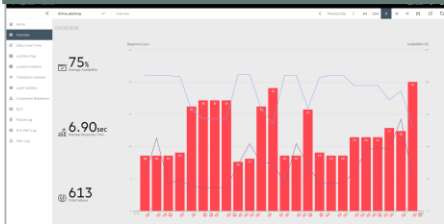


Emulate user actions and devices; uphold SLAs



The product that will get them there:

Proactive Monitoring



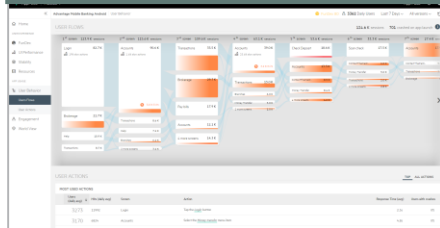
Business



Measure everything impacting user experience



Real User Monitoring



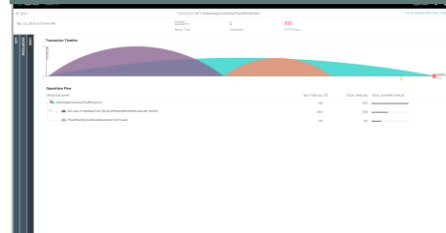
App Team



Trace user transactions down to line of code



Transaction Analytics



New Mobile Center Licensing options

The flexibility to suit your unique testing requirements

4 licensing options

- **Express:** for manual testing and open sources
- **Professional:** core device management system, smaller concurrent use
- **Enterprise:** core device management system, larger concurrent use
- **Ultimate:** core device management system, unlimited concurrent use

	Express	Professional	Enterprise	Ultimate
Manual testing, testing, number of concurrent devices	1	4	30	Unlimited
Network emulation and analytics		✓	✓	✓

For more HPE Mobile Center information:

www.hpe.com/software/mobilecenter

Mobile Testing Checklist: <http://go.saas.hpe.com/mobile-center/mobile-testing-checklist>

[HPE MC on demand webcast](#) including demo on key features

Blog: [What's New in Mobile Center 2.2](#)

Customer ondemand webcast: [How HPE's mobile solutions revolutionize synthetic monitoring for one of the largest bank in Turkey, Garanti Bank.](#)

CONGRATULATIONS

When you take the survey and opt-in to hear more from HPE, you will be entered into a drawing for the following:



The Mobile Analytics Playbook:

A practical guide to better testing

Complimentary
copy of the
Mobile
Analytics
Playbook



SafeDK

in-app protection

Complimentary 30
minute consultation
from SafeDK

THERE WILL BE 5 LUCKY WINNERS!

Julian Harty

Antoine Aymer

Thank you

- Complete the short survey and opt-in for more information from Hewlett Packard Enterprise.

www.hpe.com

www.vivit-worldwide.org



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Thank You
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