Business, rewritten by software™

Mobile App Analytics
Mobile Application Management





Agenda

- Application economy
- Benefit of MAA
- MAA Demo
- APM integration





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



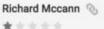
bernysty July 13, 2014

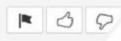
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Funktioniert seit dem neuesten Update nicht mehr. Immer nur Fehlermeldungen.

REWE Markt GmbH September 19, 2014

Hallo bernysty, wir möchten gerne mit Ihrer Hilfe auf Fehlersuche gehen. Kinner Sie uns bitte unter www.rewe.de/kontakt die Ferneldungen beschreiben? Bitte teileer uns auch mit, auf welchem Gerät und mit belchem Betriebssystem (Version) diese auftrete Nur so können wir die App stets verbessern. Vielen Dank und schöne Grüße, Ihr REWE Team





Does not recognise car I have to agree w' previous review, you register your car a go to connect with car but it says no correcognised and kicks you off the app. The no tangible way to resolve the issue. I have lost patience and check my tyre pressure in the car now



Tom Gorin June 2, 2015

* 中方中市

Alpha product at best This app is just unreliable. I have tried it with a nexus 4, LG G4, Xperia z3, and it randomly drops the connection. In fact, it is harder to get connected than not... This was one of the selling points for my 2015 A3 and I am sorely disappointed. No help from Audi either.

wooster %











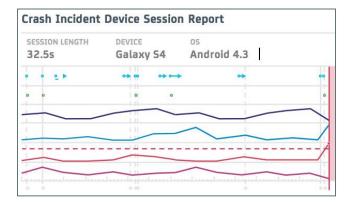
This app simply does not work. Always get "system error" or "server is currently down" messages.

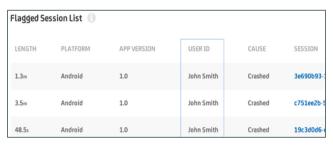


Developer Analytics

Business Analysts Ops

For large enterprise **Developers**, MAA **captures app crashes** and **offers code-level visibility** into root causes. This visibility is **critical in providing best end-user experience.**





- ✓ Capture mobile app crashes and identify root causes
- ✓ Screen capture issues fix them faster, drive better UX
- ✓ Gain code-level visibility into issues with symbolic stack traces and detailed activity logs
- ✓ Prioritize issues by assessing impact on user experience and revenue
- ✓ Analyze errors and network behavior to identify issues in code or back-end servers
- ✓ Capture device usage metrics: CPU, memory, frame rate
- ✓ Tag a user, then understand how the app performed for that specific user (crash, latency)

Operations Analytics



For large enterprise **Operations** team, MAA solution **captures performance metrics** of the mobile app infrastructure. These **metrics help address issues** before they hurt UX.



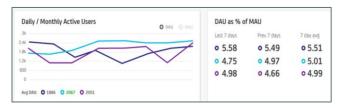


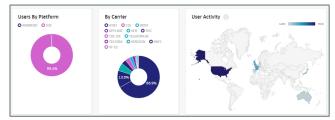
- ✓ Segment app performance by version, carrier, geo, OS, device
- ✓ Get real-time alerts on threshold violations impacting SLAs, user experience, or revenue; prioritize alerts
- ✓ Gain visibility into backend services affecting the app
 performance
- ✓ Analyze performance of networks and locations to correlate with app performance
- ✓ Isolate and rule out domain, network, data center issues
- ✓ Identify mobile app hotspots: usage, performance, coverage, issues

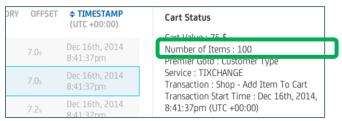
Business Analytics



For large enterprise **Business Analysts**, MAA is an analytics solution that **captures usage** and user experience metrics. This metrics help increase top-line revenue.

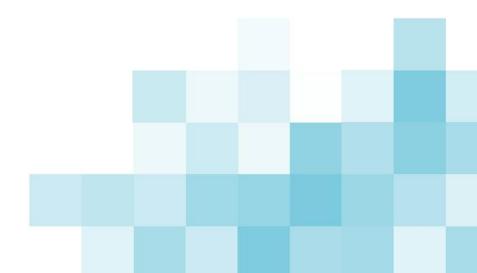






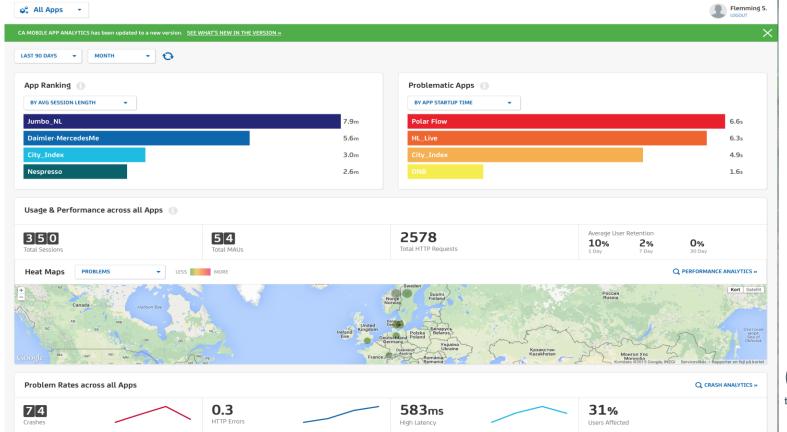
- ✓ Gain visibility into performance of key business services
- ✓ Identify popular business flows in the app; capture user flow through your app
- ✓ Insight into mobile app user engagement, activity, and retention
- ✓ Segment & analyze usage data by app version, carrier/WiFi, location, platform, OS
- ✓ Track and report stickiness based on users' revisits
- ✓ Get data to help make better OpEx and CapEx decisions
- ✓ Tag a business event (e.g. Gold Customer, shopping cart
 > 100 items) and look at impact on the top line

Demo



Mobile DevOps – Mobile App Analytics

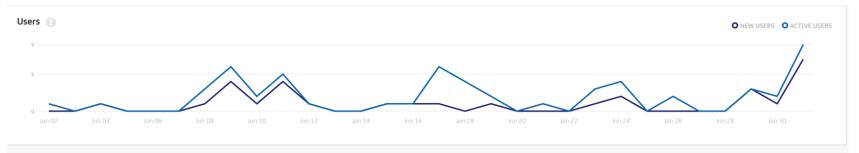
Broad, Deep visibility into your mobile infrastructure

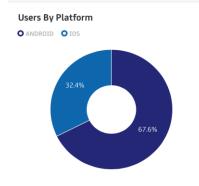


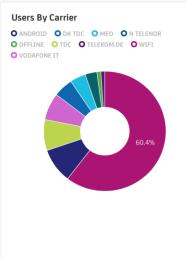


Usage Analytics

View of users, Activity, Carrier, Location



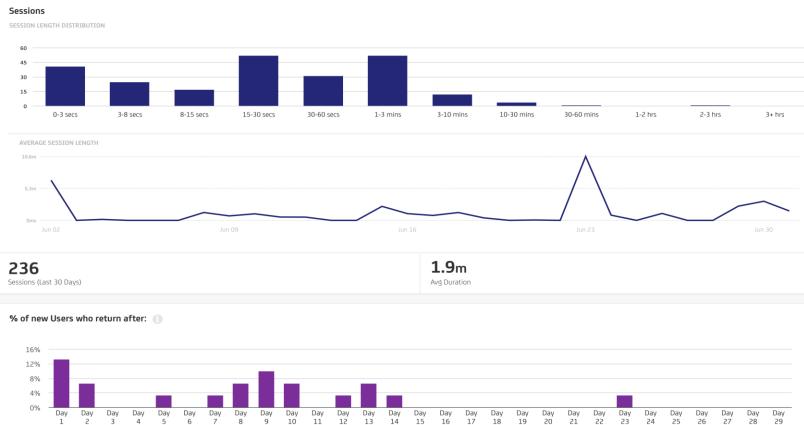




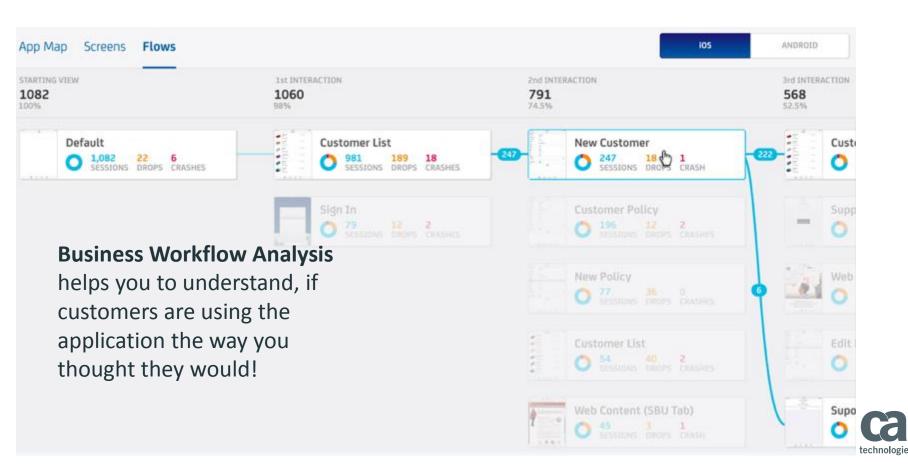


Usage Analytics

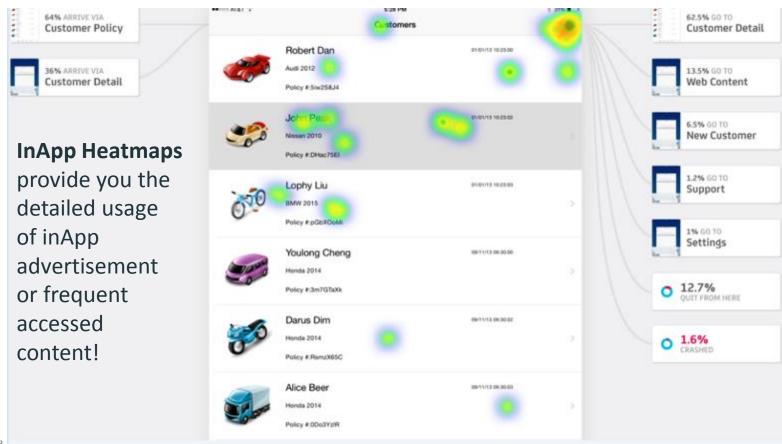
View of Sessions Distribution, Retention Metrics



Marketing and Business Development



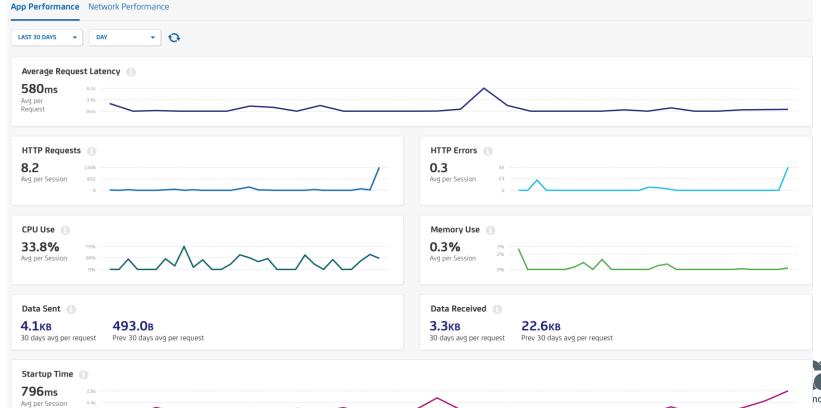
Marketing and Business Development





Analytics – App Performance

App Performance



Analytics – App Performance

Network Performance

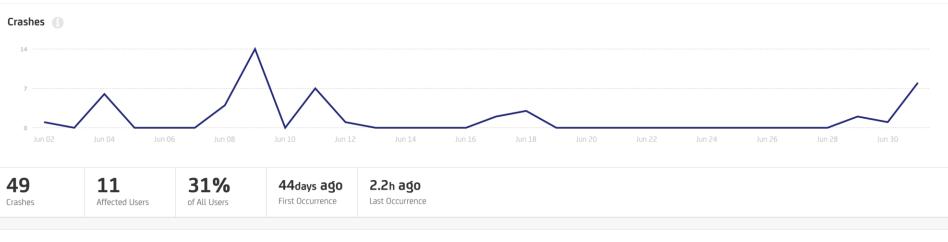






Analytics – App Crashes

Crash Analytics



Apps with the most crashes



BMW-Connected

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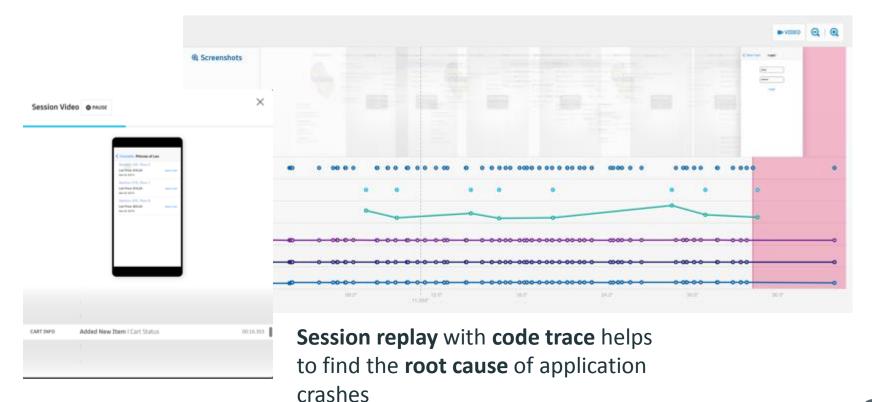
Analytics – App Crashes

Crash Analytics

List of Crash Types	Fir

◆ APPS	⇒ PLATFORM	⇔ COUNT	⇔ CRASH TYPE	♦ % OF AFFECTED USERS	♦ TOTAL AFFECTED USERS	♦ FIRST OCCURRENCE	▼ LAST OCCURRENCE
TIXCHANGE_FS (v2.1)	Android	1	java.lang.IllegalArgumentException android.view.WindowManagerGlobal (findViewLocked:372)	25%	1	1.6h ago	1.6h ago
TIXCHANGE_FS (v2.1)	Android	2	android.content.ActivityNotFoundException android.app.Instrumentation (checkStartActivityResult:1634)	25%	1	1.7h ago	1.7h ago
TIXCHANGE_FS (v2.1)	Android	5	android.content.ActivityNotFoundException android.app.Instrumentation (checkStartActivityResult:1777)	50%	2	23days ago	2.0h ago
TIXCHANGE_FS (v0)	iOS	18	SIGTRAP Unknown (Unknown:0)	100%	8	42days ago	2.1h ago
Nespresso (v2.10.0)	Android	1	java.lang.VerifyError java.lang.reflect.Constructor (newInstance:-2)	25%	1	Zdays ago	2days ago
Nespresso (v2.10.0)	Android	2	java.lang.IncompatibleClassChangeError com.nespresso.ui.g.d (postUrl:66)	25%	1	Zdays ago	2days ago
TIXCHANGE_FS (v2.1)	Android	5	android.content.ActivityNotFoundException android.app.Instrumentation (checkStartActivityResult:1648)	75%	3	23days ago	13days ago
BMW-Connected (v1.7.1 (row_151829_1014))	Android	1	java.lang.OutOfMemoryError android.graphics.Bitmap (nativeCreate:-2)	100%	1	19days ago	19days ago
TIXCHANGE_FS (v0-)	iOS	6	SIGILL Unknown (Unknown:0)	100%	3	44days ago	22days ago
TIXCHANGE_FS (v0)	iOS	1	SIGABRT Unknown (Unknown:0)	33%	1	42days ago	22days ago

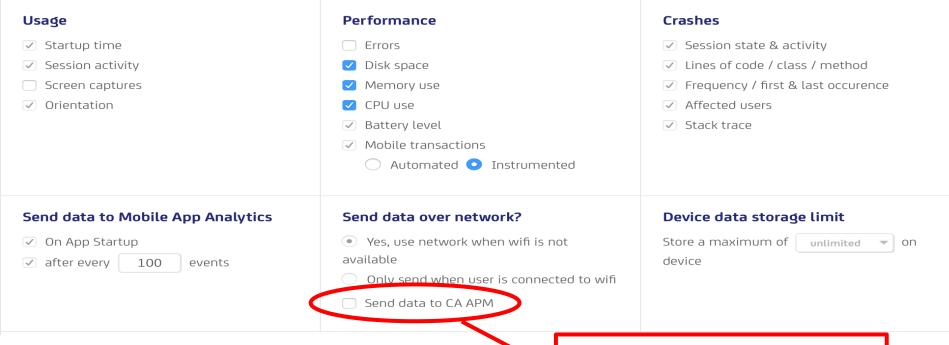
Application Crash Root Cause Analysis





APM integration

Choose which data to collect:



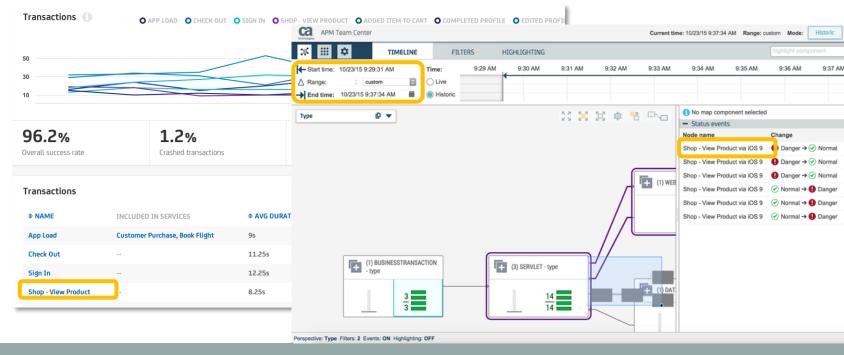
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APM Header decoration. This must be enabled for APM integration to work.

End-to-End Mobile Infrastructure Visibility

IT Operations

with Contextual deep link into APM Team Center



End-to-end view of business transactions from 'mobile to mainframe'



From planning to development to management to security, at CA we create software that fuels transformation for companies in the application economy.