





Move to mobile

Smartphones are now the dominant computer for the entire world.
Not just the developed world.



Mobile Eats The World

By 2020 80 percent of adults on earth will have a smartphone

Source GSMA



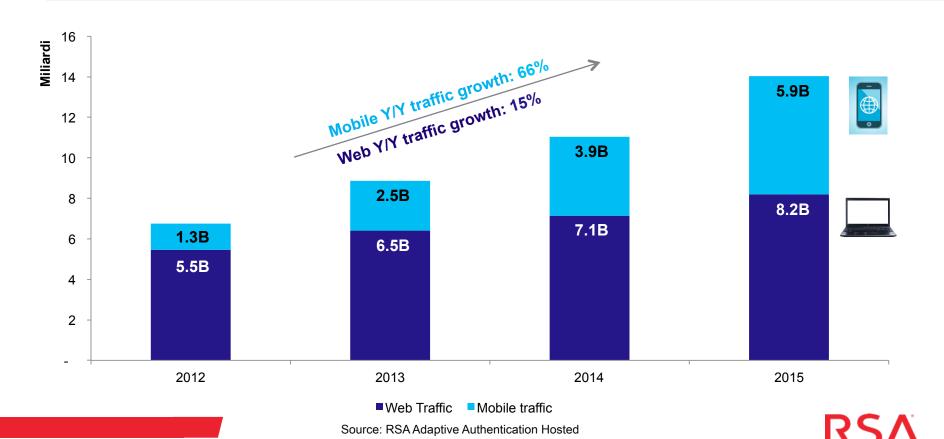
Move to mobile

- Mobile increasing transaction volume and value vs web channel
- Not just e-commerce: banking, healthcare, enterprise, travel, ...

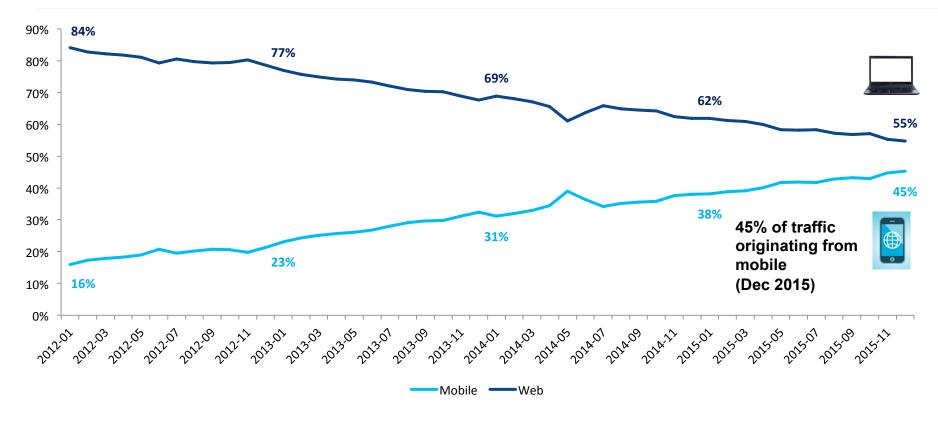




Web vs. Mobile Y/Y Traffic Growth



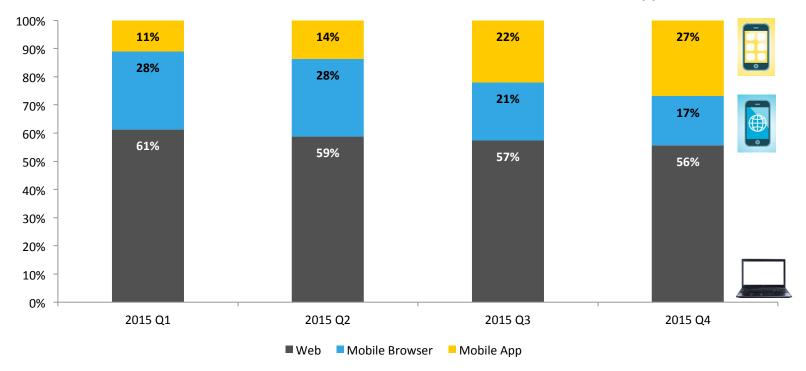
Web vs. Mobile **Traffic Distribution**: 2012 – 2015





Web vs. Mobile Browsing & App Traffic: 2015

Rise of the apps, decline of browsers.





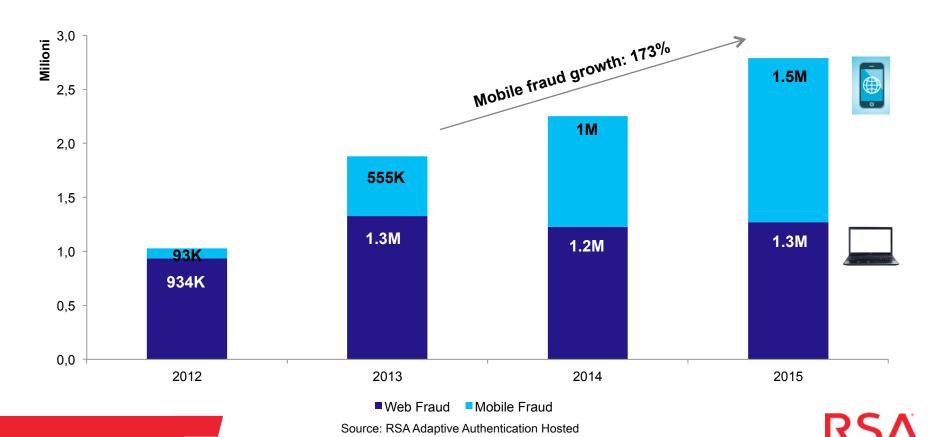
Mobile Fraud

► Rise of financial fraud originating from the mobile channel

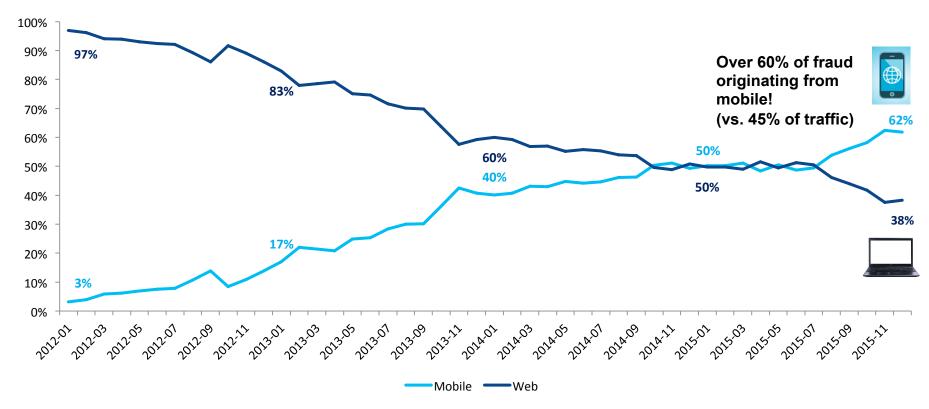




Web vs. Mobile Y/Y Fraud Growth



Web vs. Mobile Fraud Distribution: 2012 – 2015

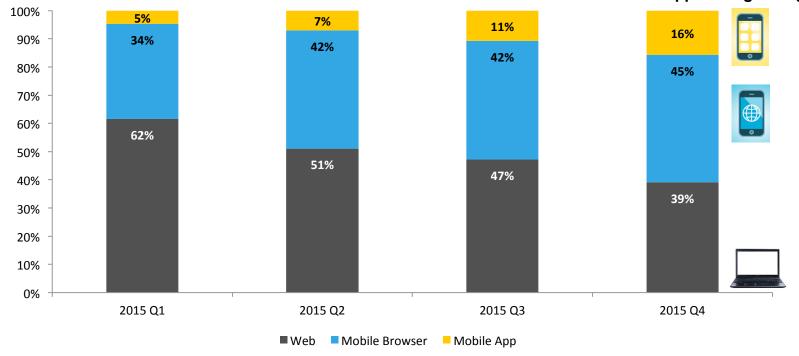




Web vs. Mobile Browsing & App Fraud: 2015

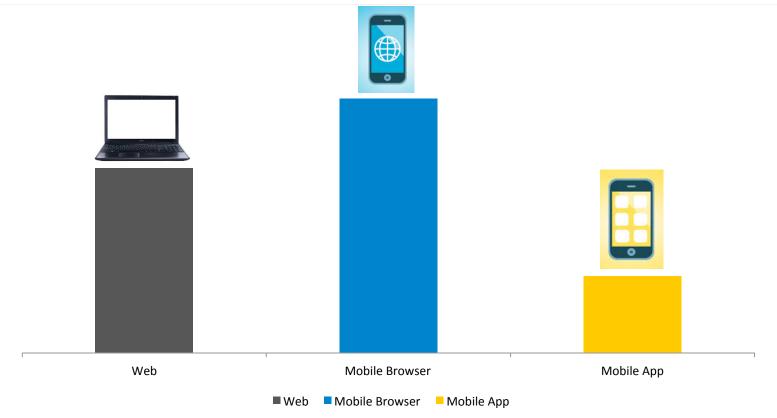
Most fraud coming from Mobile Browsing







Mobile Web Fraud is the winner. For now...





Platform wars....



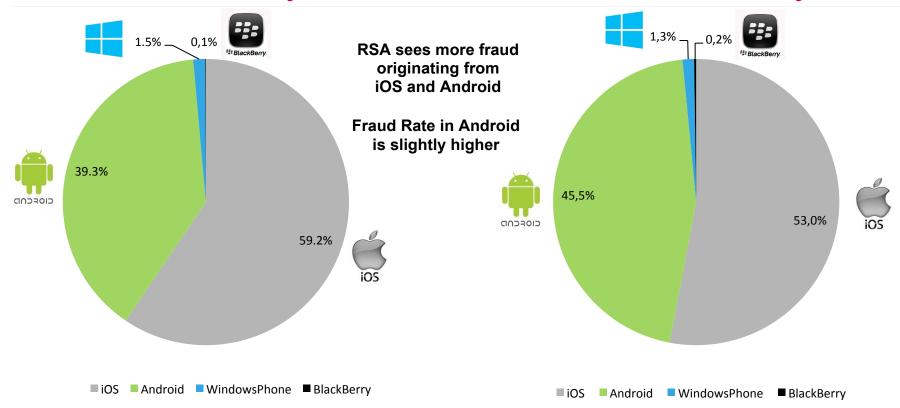






Mobile **Traffic** by OS

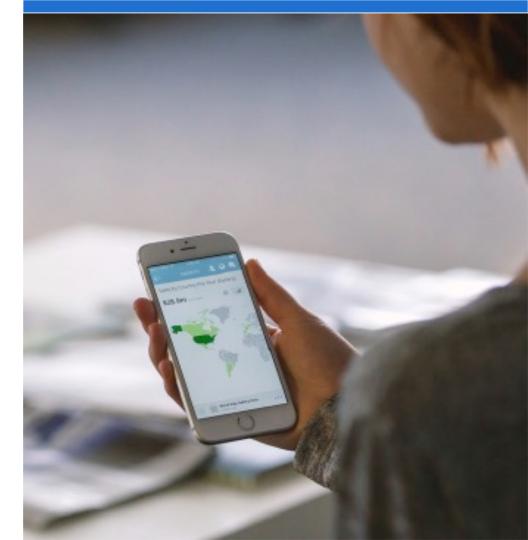
Mobile Fraud by OS





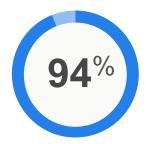
Mobile Anti-Fraud Strategies

- Risk based approach, device identification and analysis, multichannel correlation
- Mobile authentication to secure mobile channel & other channels (online web banking, eCommerce)
- ▶ Biometric authentication is the trend for strong user authentication on mobile
- ▶ Don't forget customer convenience!



Biometrics Authentication

What are the top considerations for your organization in exploring biometrics as an authentication option?



Exploring

Currently or plan to explore biometrics in the next 6 - 12 months



Options

Organizations considering voice authentication options



Options

Organizations considering behavioral biometrics (force of touch, speed, etc)



Consumers

Consumers who find biometrics an acceptable way for banks to authenticate them



Payment Services Directive II

- ► Strong customer authentication
- ▶ Need two of:
 - ► Knowledge: "something you know"
 - ▶ Possession: "something you have"
 - ► Inherence: "something you are" (Article 4.30)

When:

- Accessing payment accounts online
- ► Initiating electronic payments
- Remote channel activities with a risk of payment fraud.

(Article 97.1)





Payment Services Directive II

- ► Transaction amount and payee linked to strong authentication. (Article 97.2)
- ► Exemption for strong authentication based on the level risk.

 (Article 98.3.a)
- ► Better consumer experience: "User-friendly, accessible and innovative means of payment" (Article 98.2.e)





RS Adaptive Authentication

Multifactor Risk-based Authentication at Login



Multi-channel:

- Web
- Mobile



RS Adaptive Authentication

Multifactor Risk-based Authentication Post-Login

Multifactor Risk-based Authentication at Login



Activity Examples

- Login
- Bill payment
- Money Transfer
- Password change
- PIN request
- View statement
 - New card request
- New Payee Addition
- Address change
- many more...

Login Transaction

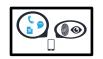


RS Adaptive Authentication

Step-up Authentication - Out of Band

Multifactor Risk-based Authentication Post-Login

Multifactor Risk-based Authentication at Login







Step-up Examples

- SMS
- Phone call
- Biometrics
 - -Fingerprint
 - -EyePrint
- Multi-Credential Framework:
 - -3rd party tokens
 - -3rd party biometrics



Login Transaction



RS Adaptive Authentication

Transaction Signing + Biometric Step-up

Step-up Authentication - Out of Band

Multifactor Risk-based Authentication Post-Login

Multifactor Risk-based Authentication at Login





Transaction Signing

- Transaction integrity
- Cryptographic signature
- Online & Offline Support
- · Editable Field Mode
- Optional Biometric Step-up Authentication

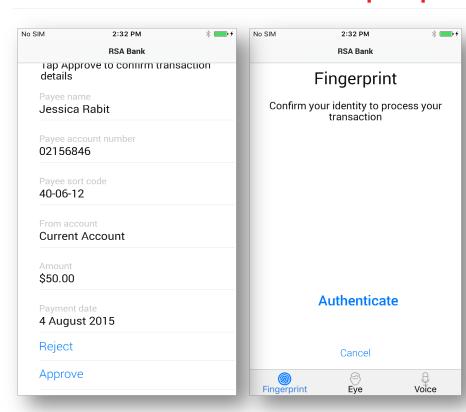


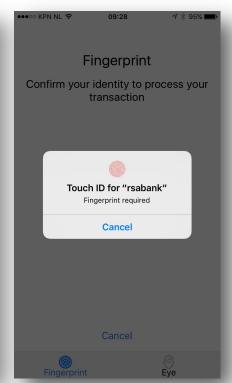
Login Transaction

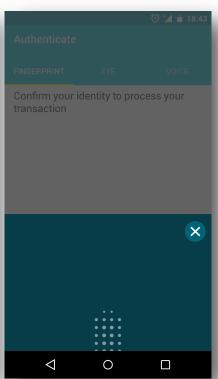


Mobile Biometric Step-up

RS Adaptive Authentication





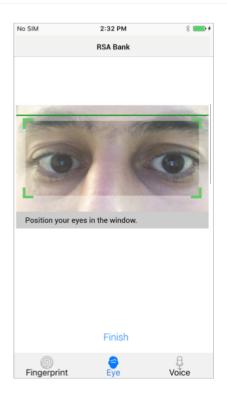


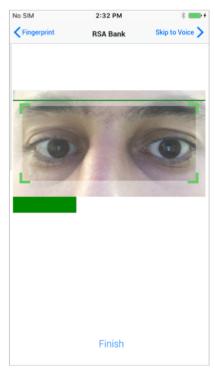


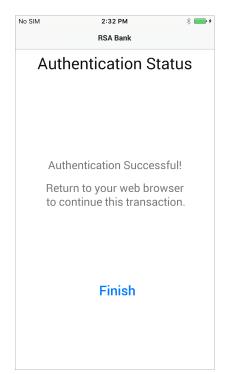
Mobile Biometric Step-up

RS Adaptive Authentication





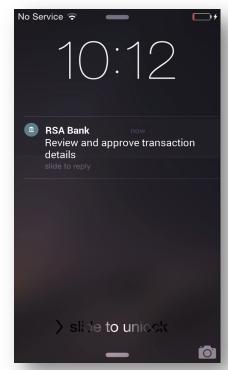


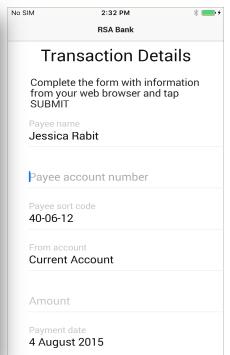


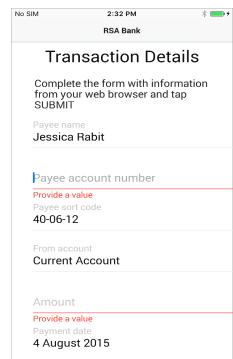


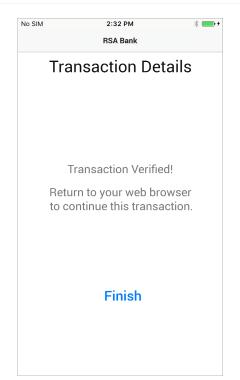
Mobile Transaction Signing

RS Adaptive Authentication



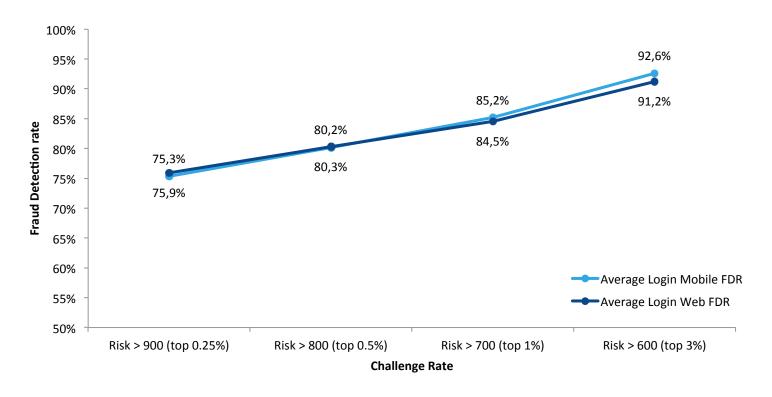






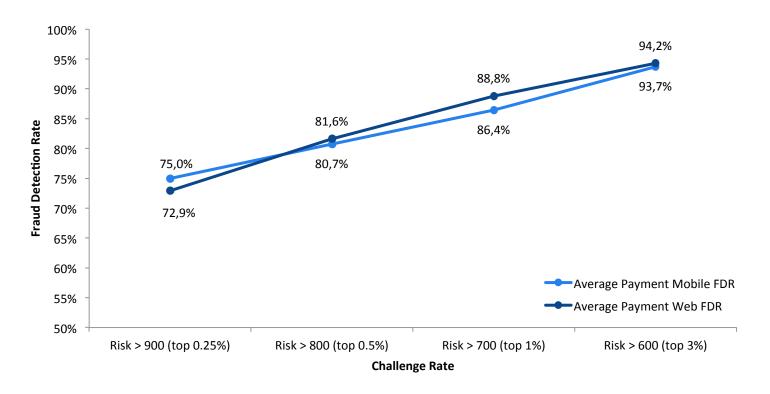


RSA Login Fraud Detection Rate: Web & Mobile





RSA Payment Fraud Detection Rate: Web & Mobile





RSA Fraud & Risk Intelligence

- Risk assessment
- Behavior profiles
- Device Fingerprinting & IDs
- Self learning risk engine
- Global intelligence
- Mobile Biometrics
- Mobile Transaction Signing
- Market leading fraud detection
- Customer convenience

RS Adaptive Authentication

RSA Adaptive Authentication

RS Web Threat Detection

RS Fraud Action







@RSAFraud

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