

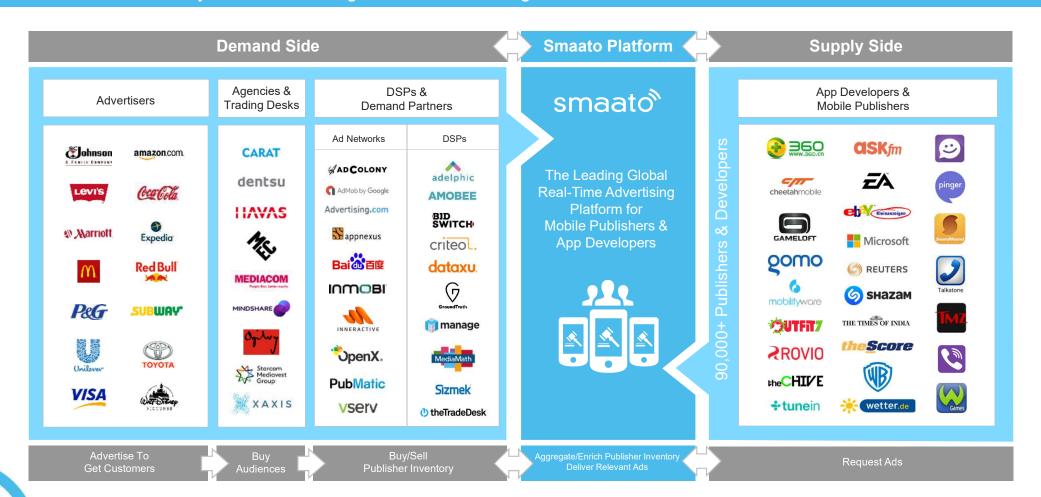


Top Trends That Will Shape the Future of the Mobile Advertising Industry

ARNDT GROTH
PRESIDENT, SMAATO



Who Are All the Players in Mobile Programmatic Advertising?



- Direct Relationships With
 90,000+ Publishers & App
 Developers Worldwide
- 1+ Billion Monthly Unique
 Mobile Users and 500+
 Billion Monthly Impressions
- Advanced Traffic and Audience Targeting
- Private Marketplace Options

Connecting Advertisers to the World's Mobile App Audience Transparently & Securely



- Connected to Over 450+
 DSPs & Ad Networks
- Clean, Protected Mobile
 Advertising Marketplace &
 almost 100% Fraud Free
- Global Real-Time Bidding Ad Exchange
- Serving 91 of Top 100 Ad
 Age Advertisers







New York



Hamburg



Singapore



Shanghai



Top Mobile Advertising Trends

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For 2018 and Beyond



Complexities of Mobile Programmatic



Mobile Video Advertising



In-App beats Mobile Web



Transparency



Enhanced Attribution: Digital to Offline

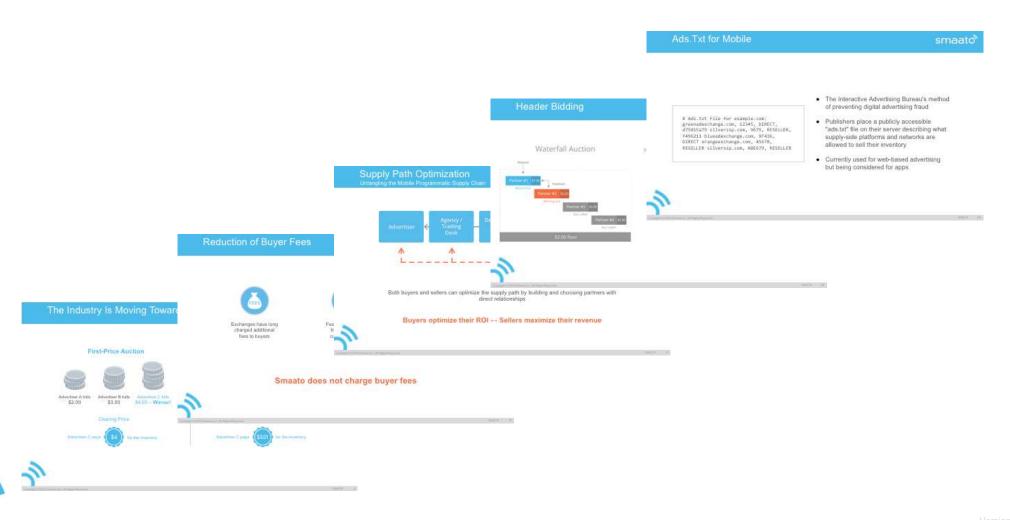


General Data Protection Regulation (GDPR)





Our Industry Continues to Evolve

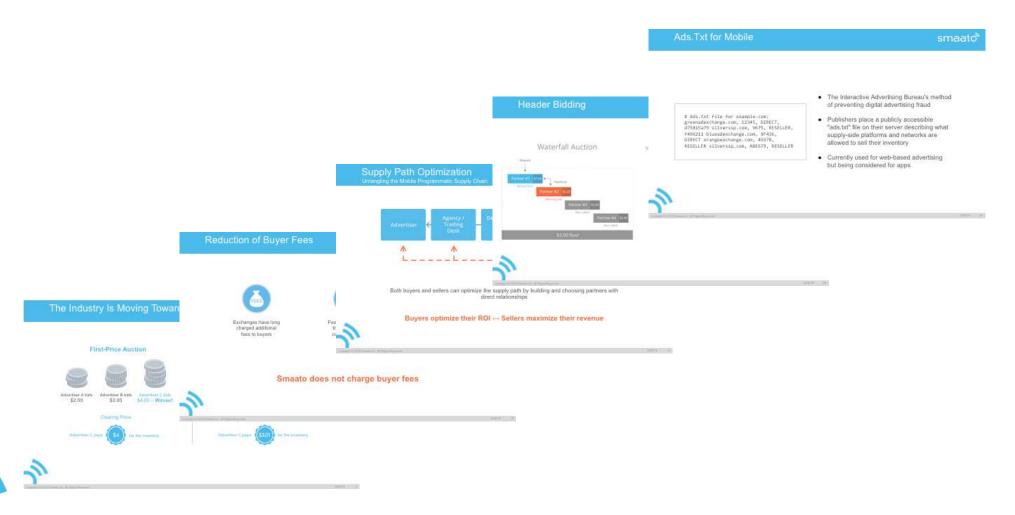








Our Industry Continues to Evolve



The Industry Is Moving Towards First-Price Auctions



First-Price Auction



Advertiser A bids \$2.00



Advertiser B bids \$3.00



Advertiser C bids \$4.00 - Winner!

Clearing Price



Second-Price Auction



Advertiser A bids \$2.00



Advertiser B bids \$3.00



Advertiser C bids \$4.00 - Winner!

Clearing Price





Reduction of Buyer Fees





Exchanges have long charged additional fees to buyers



Fees are often not transparent or communicated effectively



To improve transparency, buy-side fees are being reduced or eliminated throughout the industry

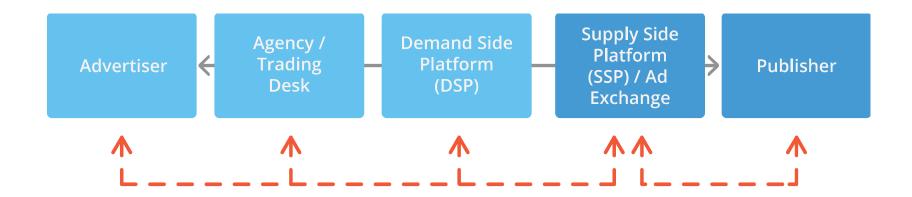
Smaato does not charge buyer fees



Supply Path Optimization



Untangling the Mobile Programmatic Supply Chain



Both buyers and sellers can optimize the supply path by building and choosing partners with direct relationships

Buyers optimize their ROI ↔ **Sellers maximize their revenue**



Header Bidding



Waterfall Auction



VS.

Header Bidding





Ads.Txt for Mobile



Ads.txt file for example.com: greenadexchange.com, 12345, DIRECT, d75815a79 silverssp.com, 9675, RESELLER, f496211 blueadexchange.com, XF436, DIRECT orangeexchange.com, 45678, RESELLER silverssp.com, ABE679, RESELLER

- The Interactive Advertising Bureau's method of preventing digital advertising fraud
- Publishers place a publicly accessible "ads.txt" file on their server describing what supply-side platforms and networks are allowed to sell their inventory
- Currently used for web-based advertising but being considered for apps



Mobile Video Advertising





Mobile Video Advertising

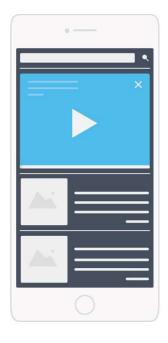




Ad Spending Growth by Mobile Video Ad Format, Q4 2017 vs. Q3 2017



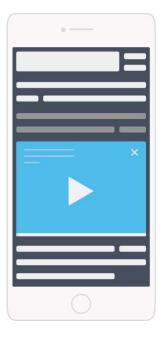
Interstitial Video +97%



Instream Pre-Roll Video +102%



Rewarded Video +32%



Outstream Video +60%



Source: Smaato Publisher Platform (SPX) - Q4 2017 vs Q3 2017

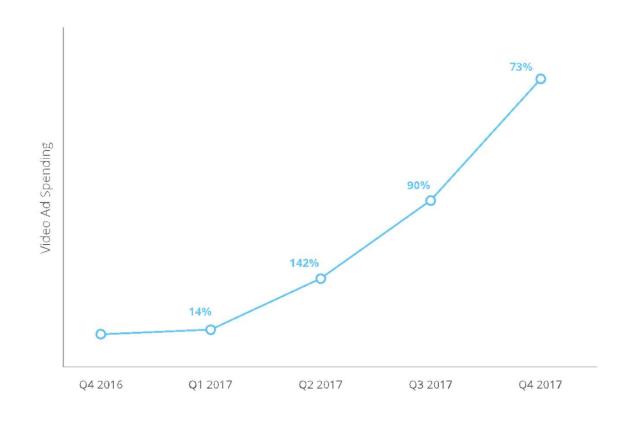
Mobile Video Advertising



Advertisers' Investment in Video Continues to Grow







Source: Smaato Publisher Platform (SPX) - Q4 2016 3 Q4 (2017)

Rewarded Video



An effective method for gaining informed clicks and high-quality conversions is to use rewarded video ads. Since this ad format is opt-in, with users choosing to watch in exchange for a reward, it has the highest viewability rates of any mobile ad format.

Technology: Vast standard



Tracking: Quartile / VTR etc.



Viewability: 100%, full-screen







User Experience: Forced ad, non-skippable



Placement: In-app games



Price:

Medium range: \$1.00 - \$6.00



In-App beats Mobile Web

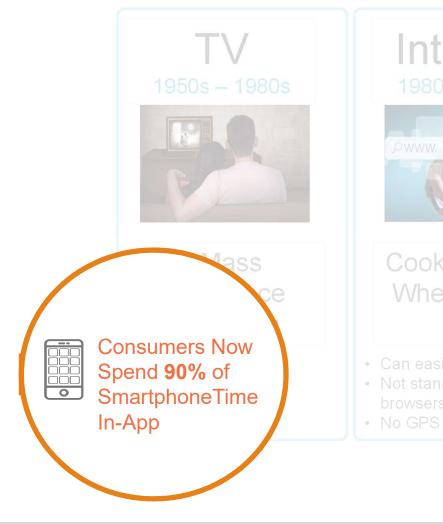




In-App beats Mobile Web

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Enables Reliable 21+ Month User Tracking







Advantages of In-App

Mobile Websites vs. Mobile Apps



| | U U 1000 | Acres 10 |
|-----|----------|----------|
| | | W-L |
| Mol | | |

Cookies

Web activity (e.g. shopping habits, favorite websites, etc.)

Vulnerable to in-browser ad blockers

33 minutes

Tracking Method

Available User Data

Ad Blocking

Average Daily Usage **Mobile Apps**

Device ID

GPS location, device type, OS, gender, age, wireless carrier

Ad blocking technology has not advanced to universally block in-app ads

3 hours 8 minutes



Transparency





Version 01.0

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Transparency

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Buzzword or Necessary Reality?

"Advertisers Put Transparency on the Top of Their 2018 To-Do Lists" Digiday V "Is Transparency Fueling BUY Advertiser Paranoia?" Ad Exchanger ∇ \$ ∇ 0 "Why Transparency and Sustainability in Programmatic Matter Now, More Than Ever"

Huffington Post

Transparency Three Shades of Transparency

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Enhanced Attribution: Digital to Offline





Enhanced Attribution: Digital to Offline

A Consumer's Journey: Pre-Mobile World



VIEWS BRAND ADS

Watches TV/Online ads that create brand awareness.



VISITS STORE

Enters store, where 70% of purchase decisions are made.



ENCOUNTERS IN-STORE PROMOTER

Meets promoter in-store who explains product benefits or samples product.



PURCHASES PRODUCT/BRAND

Purchases product at cash register in cash or via credit/debit card





Enhanced Attribution: Digital to Offline

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A Consumer's Journey in a Mobile-First World

VIEWS BRAND ADS

Watches Mobile/Online ads that create pre-purchase brand awareness. Concept of "primetime" is now gone.

SEES MOBILE AD NEAR STORE

Frequency-capped geo-targeted mobile ads within X km/mile radius of store bring qualified consumers into store.

VISITS STORE

Enters store, where 70% of purchase decisions are made, knowing there is a special event/promotion taking place.

ENCOUNTERS IN-STORE PROMOTER

Meets promoter in-store who explains product benefits or samples product.











DEVICE ID MATCHING: 21+ MONTHS

USER DATA

- Device ID
- Device OS
- Carrier
- USER DATA

Age

USER

DATA

- GPS
- Country Gender

USER DATA



- AD/PROMO SPEND
- STORE VISITS
- FIRST PURCHASE
- **REPURCHASES**





Triggers attribution by scanning product UPC/QR Code in exchange for reward. Retargeting begins.



PURCHASES PRODUCT/BRAND

Pays for product at register, potentially with NFC mobile payment.



RECORDS BEACON

Promoter has a beacon in her pocket, which is received/noted on consumer's app.



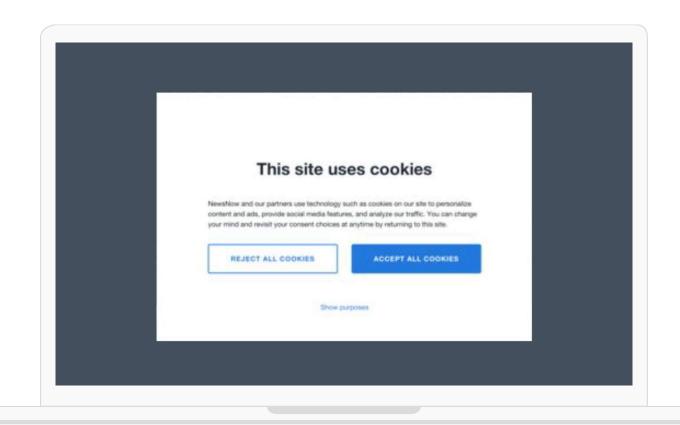


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Example of Custom UI (Simple Consent)

Level 1:

Simple consent collection for all selected vendors and purposes



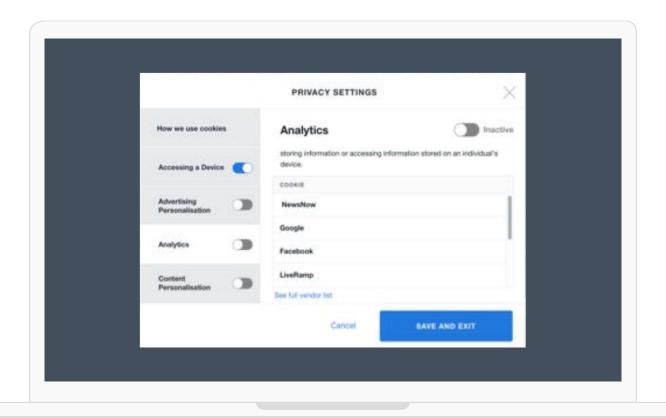




Example of Custom UI (Purpose-Level Consent)

Level 2:

Purpose-level consent options for consumers



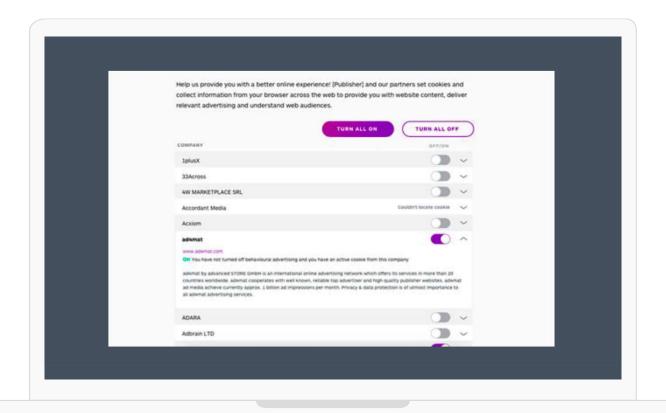




Example of Custom UI (Vendor-Level Consent)

Level 3:

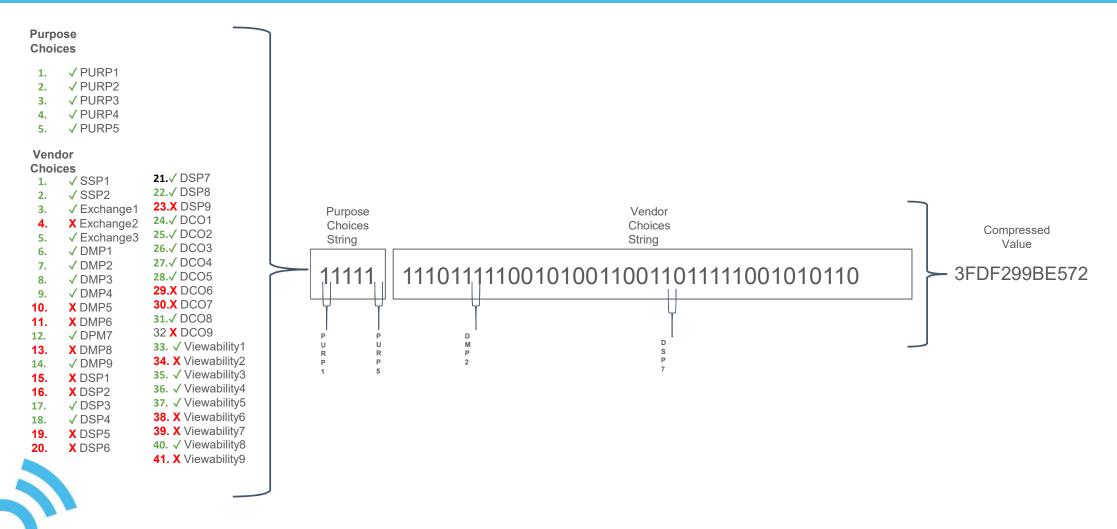
Vendor-level consent options for consumers





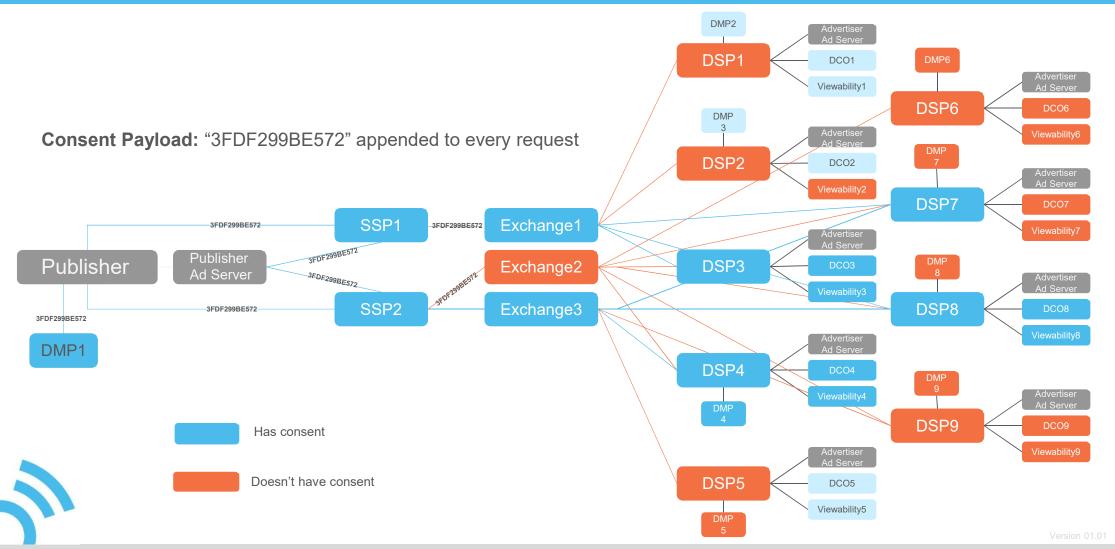
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Encoding Choices for Storage & Transmission



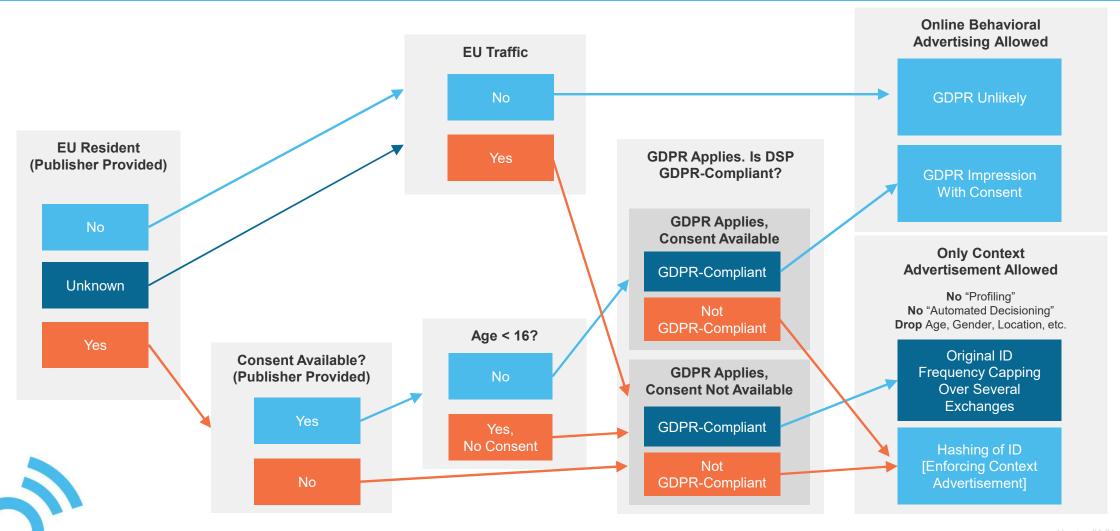
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Transmitting Approved Vendors and Consent



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Decision Tree Beginning on May 25, 2018





Thank You

Questions?

ARNDT GROTH PRESIDENT, SMAATO

ABOUT SMAATO

Smaato is the leading global real-time advertising platform for mobile publishers and app developers. Smaato runs the world's largest independent mobile ad exchange and has been pioneering innovative, mobile-first solutions for publishers since 2005.

Smaato's SPX is a global, intelligent and free-to-use self-service platform and ad server that brings native, video and real-time advertising to over 90,000 app developers and mobile publishers. The company's worldwide reach and extensive network of demand partners provide a massive variety of advertisers with one single integration. Smaato manages up to 19 billion ads every day around the world, across over 1 billion unique mobile users each month.

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