



Android Commercial Agreements

Exec Discussion
(*partial updates Oct. 2020*)

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TT to Intro

Ex. No.

UPX0146

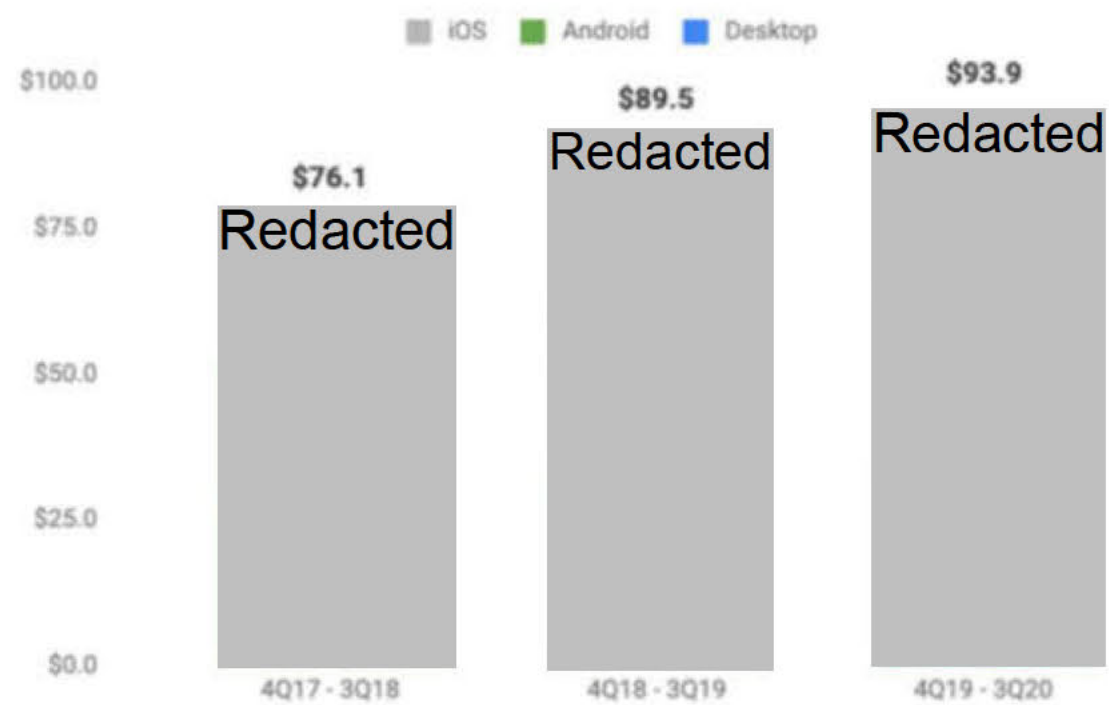
1:20-cv-03010-APM

Redacted

REDACTED FOR PUBLIC FILING & ABRIDGED

GOOG-DOJ-17461385

Android channeled Redacted % of Search Revenue to Google (TTM through Sep. 20)



	% of total		
	Desktop	Android	iOS
4Q17 - 3Q18	Redacted		
4Q18 - 3Q19	Redacted		
4Q19 - 3Q20	Redacted		

	% of yoy growth		
	Desktop	Android	iOS
4Q17 - 3Q18	Redacted		
4Q18 - 3Q19	Redacted		
4Q19 - 3Q20	Redacted		

Source: QueryNav data; Data unavailable for 10/1/17 - 10/17/17, due to data table limitations

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OEM Revenue share and access points (TTM through Sept. '20)

Redacted

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Carrier Revenue share and access points (TTM through Sept. '20)

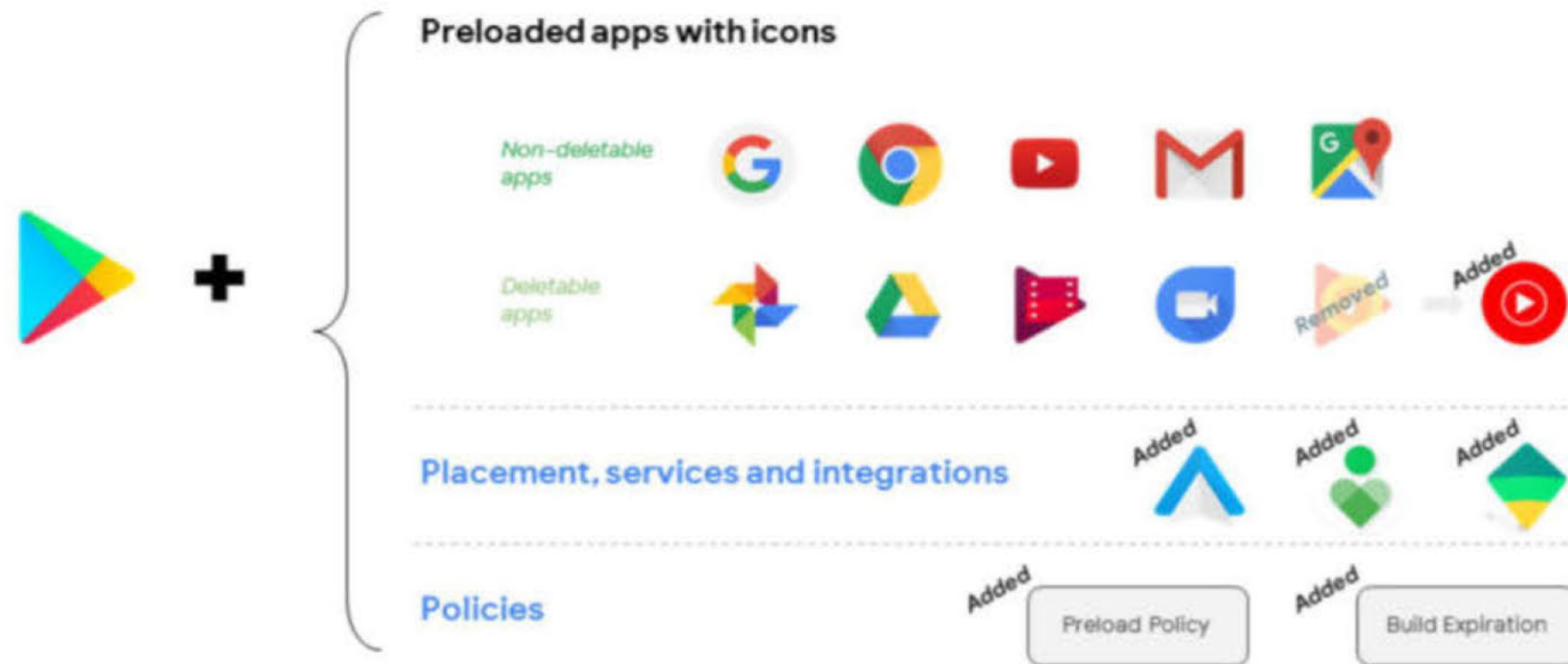
TOP CARRIERS	28DA	Search Revenue	Rev Share YTD 2020	Access Point (% of Rev)		
	Sept 2020	YTD 2020	Rev Share %\AC paid (\$M	Chrome	GSA	Other
Verizon	Redacted					
T-Mobile (US)						
AT&T						
Sprint						
America Movil						
KDDI						
Orange						
Vodafone						
T-Mobile (ROW)						
US Cellular						
BT Group						
H3G						
Rogers / Fido						
Telstra						
Bell						
Optus						
Total						

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MADA v.2019: Update rolling out now (1+1 year contract)



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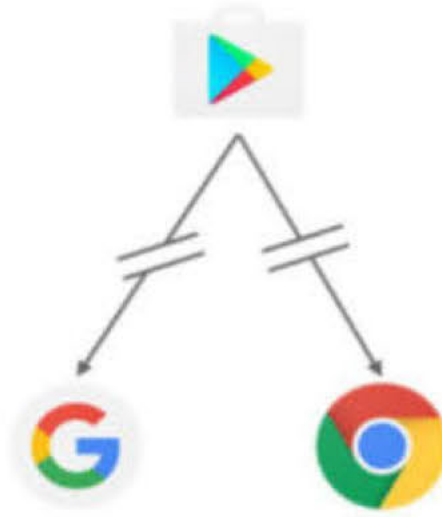
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Regulatory Pressure: EC raised objections with compatibility requirements (ACC) and bundling of apps in MADA

Enable OEMs to build non-compatible devices alongside compatible devices



Stop tying Search and Chrome to Play



Stop tying Chrome to Search

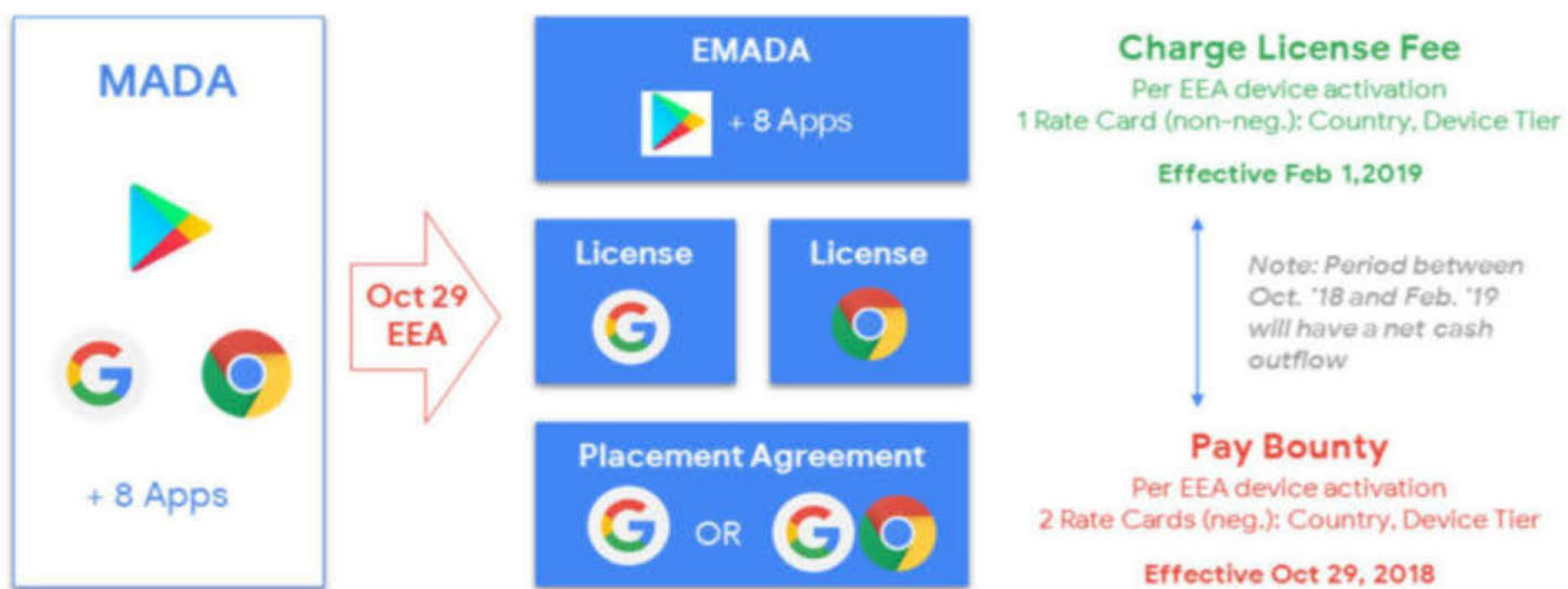


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Remedy: 1 agreement into 4 + new business model



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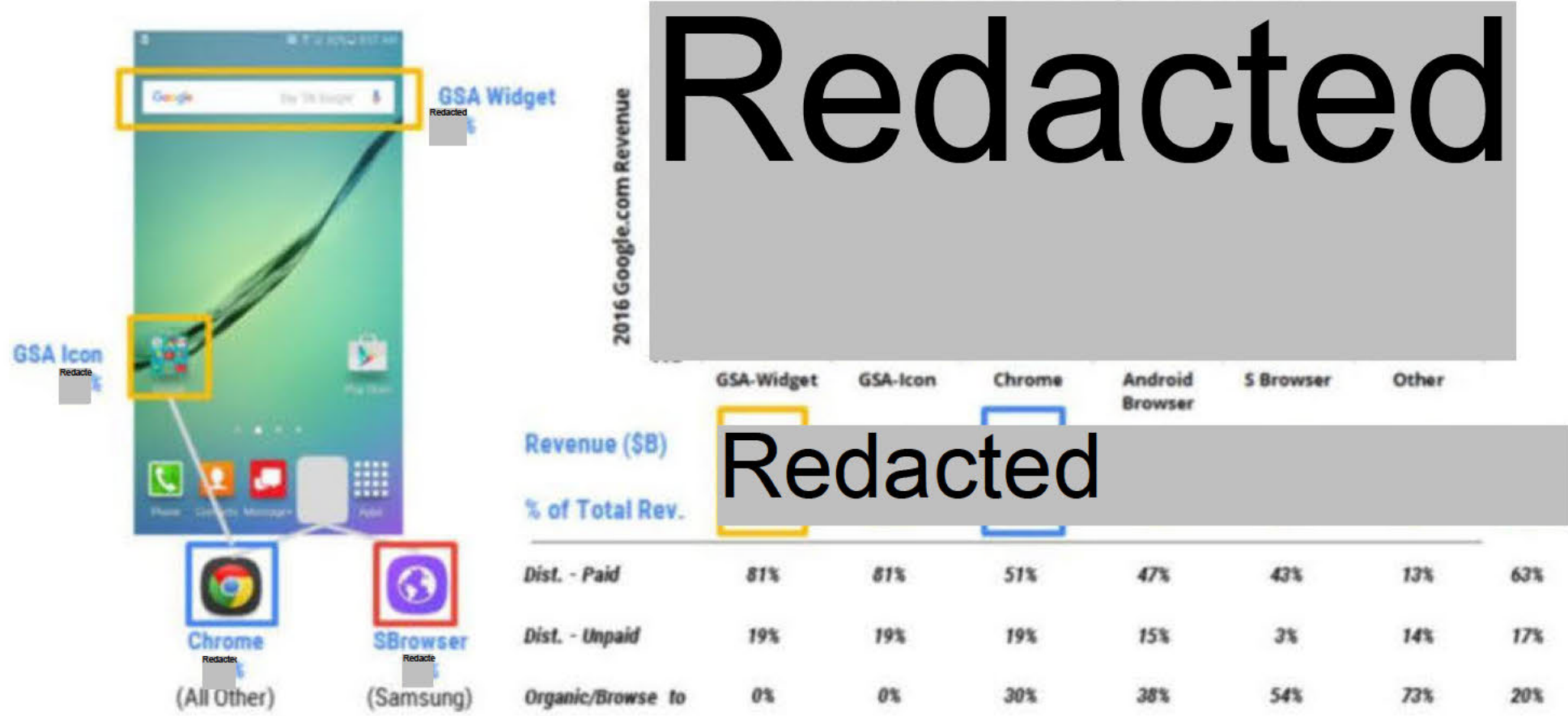
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Sizing RSA-Mandated Search Access Points

2016 Android Revenue by Access Point



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Considering Value of MADA + RSA

	Search	Assistant	Preloads and Placement of Other Apps (incl. Chrome)	Intangibles
Consideration	<p>Lower TAC vs. 3P OS</p> <p>Access Point protections (RSA)</p> <p>Uplift in search behavior vs. 3P OS</p>	<p>DHS, hotword, and OOB enablement exclusivity provisions for 3P Assistants</p>	<p>Chrome in hotseat and default</p> <p>OEMs: Gmail, Photos, Keyboard, Calendar as default, Messenger in hotseat and default, Duo on DHS for higher Rev Share rate</p>	<p>Ensure quarterly security updates for healthy ecosystem (RSA provides penalty for non-compliance)</p>
Value Attribution	<p>+XXp.p TAC Savings¹</p> <p>+8% Search Share²</p> <p>+10% Search Uplift³</p>	<p>Higher expected discoverability and usage</p>	<p>Distribution cost savings and increased usage of Google apps</p>	<p>Difficult-to-quantify benefit to ecosystem and increased user trust</p>

1) Based on effective TAC rate delta between Android and 3P OS; includes organic revenue, 2) Based on GDN data vs. 3P OS, 3) Based on [analysis](#) of iPhone vs. Android RPMs and Queries / user

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MADA + RSA Economics: Revenue at risk

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What is the scope of the RSA 2.0 deal coverage?

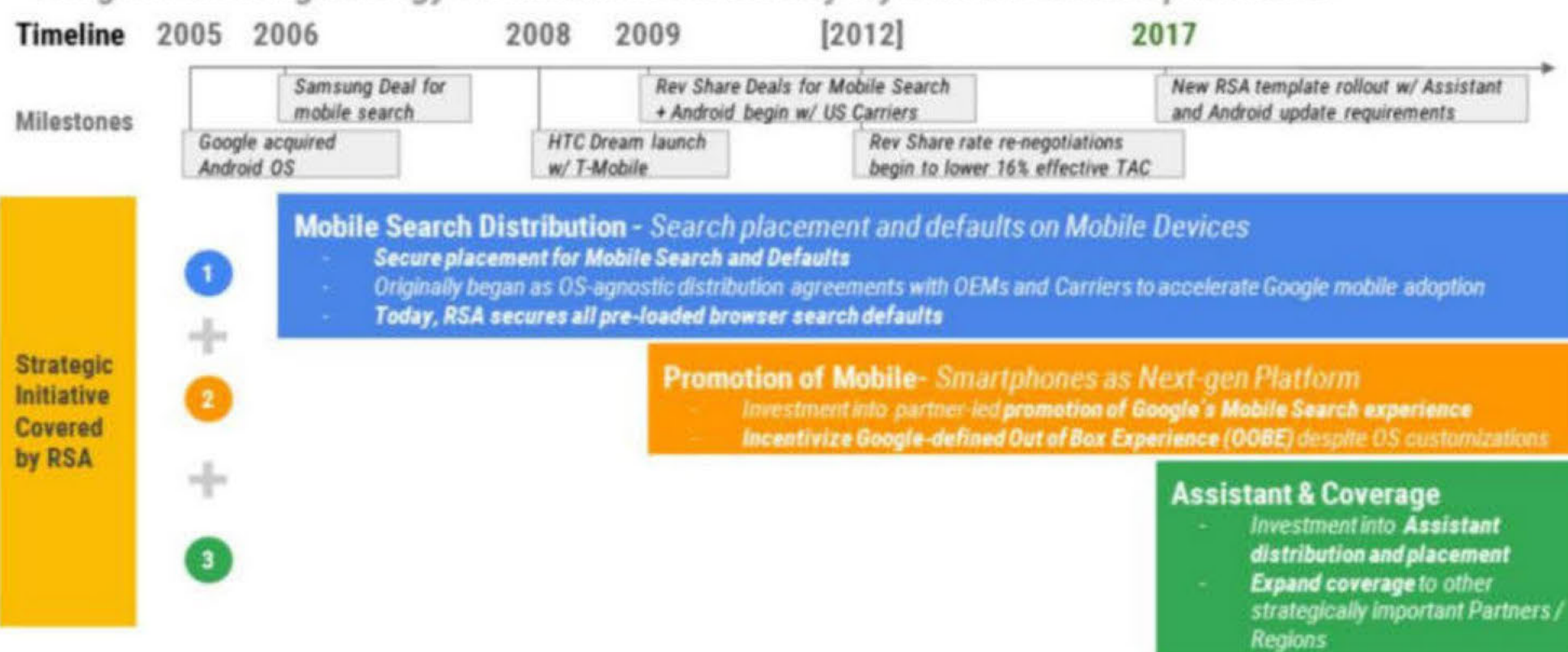
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As Reviewed in BC Oct'16

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Revenue share as investment vehicle for Google's mobile strategy

Google's evolving strategy for Mobile incrementally layered into RSA requirements



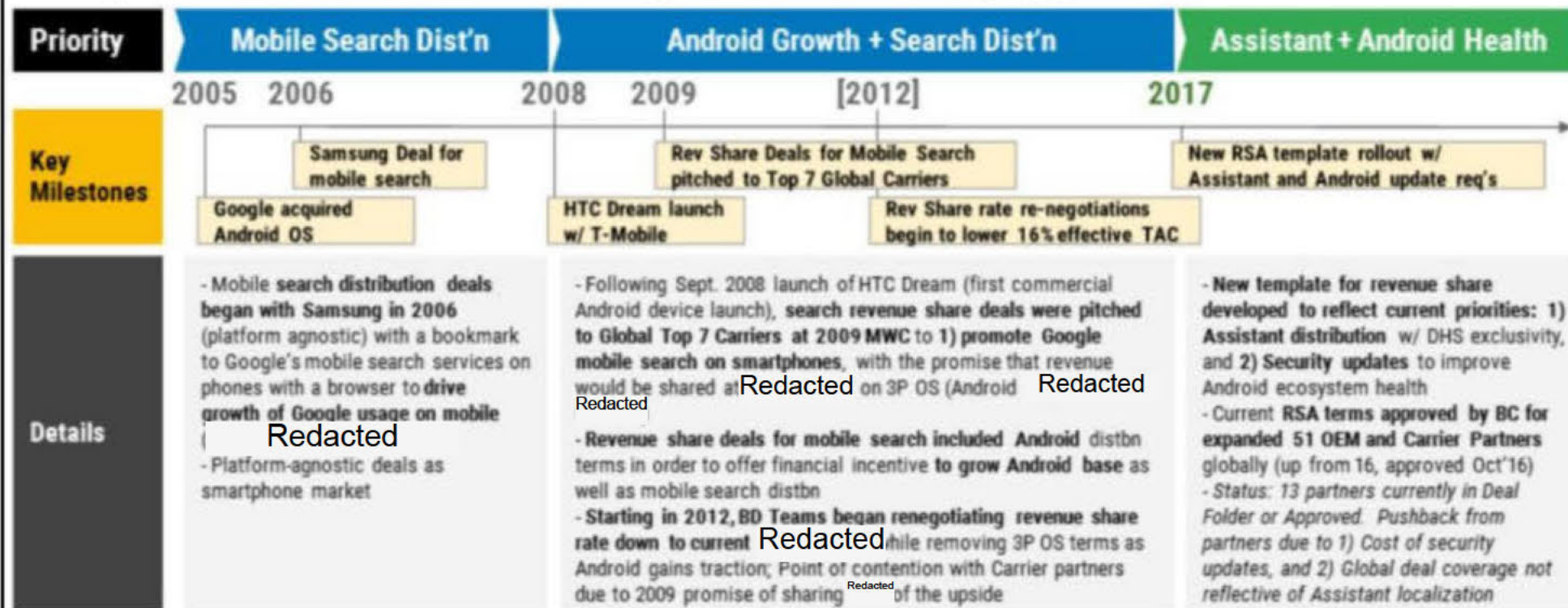
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History of Search Revenue Share on Android

Google's "Gets" have evolved over the years to reflect changing priorities



Revenue share is an effective vehicle for aligning priorities with Partners; New generation of deals ("RSA") to tackle modern challenges: 1) Assistant Distribution, and 2) Security and Health of Android ecosystem

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Recent changes to MADA and RSA

MADA

License to OEMs to distribute Google Apps

Search:

- Search intent set to Google *[removed to reduce pressure]*
- QSB on DHS *[Challenged in EU. In RU Chrome Widget presents user with a choice of default search]*

Assistant provisions: *[New]*

- Assist intent defaults to Google
- Long press & touch on home button triggers assist intent
- Google hotword enabled & Google has access to DSP
- Home button animation for Assistant
- 2 OOB screens for Assistant

Apps:

- 11 apps preloaded in folder on DHS *[now 5 of those will be deletable by user; Chrome preload challenged in EU]*
- Play on DHS *[Play preload req challenged in EU]*

Health: *[new]*

- Quarterly security updates

RSA

Redacted

Search:

- Search intents & defaults
- Device Exclusivity *[went to DHS exclusivity in EU, TR, KR, placement only in RU, to reduce pressure]*
- Chrome in hotseat & default *[new]*
- No 3P search & assistant on -1 *[new]*

Assistant provisions: *[new]*

- OOBE screens for Assistant
- Restrictions for DHS placement and OOB enablement of 3P & carrier assistants

Apps: *[New, Optional]*

- Defaults for Calendar, Gmail, Photos, RCS; Duo on DHS

Health: *[New]*

- Quarterly security updates

Redacted

Overview of Android ecosystem incentives

Differing incentives of ecosystem constituents reduce adoption of Google's initiatives

Consideration	Google	OEM	Carrier	Consumer
				Downstream →
OS Distribution	Strong Enables timely iteration on mobile innovations	Medium / Strong Incentive to sell new and differentiated devices	Low Less profitable as support and testing costs increase	Neutral Majority of users are agnostic to version of OS
Security Updates	Strong Secure phone to develop user trust	Neutral Costs increase but positive for brand experience	Medium Testing costs increase but important for B2B sales	Medium Users concerned, but may incur data costs in low wifi regions
Google Search Functionality	Strong Main source of revenue; Expand access point coverage	Neutral Agnostic to provider; Accept highest bid	Neutral Agnostic to provider; Accept highest bid	Neutral Browser and apps allow access to search
OPA Distribution and Promotion	Strong Continued interaction with OPA increases usage / stickiness	Low Agnostic to provider; Accept highest bid or promote own	Low Agnostic to provider; Accept highest bid or promote own	Low Nascent technology as of yet, with many options
Google App Placements	Strong Reduced distbn. costs and incr'l revenue opportunity	Low Agnostic to provider; Accept highest bid or promote own	Low Agnostic to provider; Accept highest bid or promote own	Neutral 3P apps could provide similar functionality / service

Financial incentives reduce friction

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Why are we expanding RSA coverage and what are we changing?

Cover strategically important regions and Partners + Assistant distribution

- **Expand deals to cover high-growth and strategically important regions such as Japan**
 - High growth regions (eg. BRIIM) essential to sustain future Google search growth
 - RSA affords search pre-load exclusivity and incentive for Partners to promote Google services
 - Offer incentive to Partners in iOS-strong regions such as Japan to promote Google and Android; Share loss directly increases Search and Google services distribution costs
- **Partner expansion to reflect changing ecosystem dynamics**
 - Top Chinese OEMs catching up, contributing ^{Redacted} of Android shipments and Redacted
 - Competitors aggressively targeting rising OEMs due to lack of exclusivity provisions afforded via RSA
- **Secure Assistant experience on Android; RSA affords Google-forward Assistant experience**
 - Assistive services is nascent industry with increasing competition
 - Low margin handset business incentivizes OEMs to strike distribution deals (eg. HTC's deal with Alexa, Nokia in discussions with Alexa)
 - RSA secures DHS exclusivity of OPA
 - Incentivize Security Updates and ecosystem defragmentation to provide positive user experience for Assistant
 - Increasing data needs for Assistive services requires user trust
 - Assistant experience improved via Other Google app deep-links afforded via defaults and preloads

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RSA Lite approach could save ^{Redacted} in 2017-2020 if rolled out widely **PRIVILEGED & CONFIDENTIAL**

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NOTES
1. Under RSA Lite, existing devices would receive revenue share on grandfathered terms for installed base
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2. Jan and Feb of 2014 excluded from access point calculation due to unavailability of information
3. Carrier rankings dependent on Client ID; Non Rev Share partners would not have an associated Client ID and therefore excluded from rank

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August looks mostly flat ..

The flat progress is due to some devices on quarterly cadence and Samsung dropping some models. Overall without any additional support through APE/BD program mgmt, we believe we can make some progress with exec escalations but will need support of initiatives like rev share & magic wand to make the next level of progress

Rev Share Lite Considerations
Require and only pay on 3P browser defaults

Advantages	Risks / Concerns
Redacted of Search revenue on Android devices flows through AGSA & Chrome (MADA access points) even on Samsung devices. Potential TAC savings over 3 years (2017-2020) from top partners are estimated at Redacted	We estimated that we have to pay Redacted gross rev share for the 3P browsers to be competitive, which might create misaligned expectations that we will also pay Redacted on Google access points if MADA is dismantled
Due to regulatory pressure in EU, KR and potentially JP, we may have to take AGSA and Chrome out of MADA in the medium to long term. Might be good to start setting partner's expectations, that we, in the current RSA deal, will not be paying for MADA covered access points	OR if it's introduced carriers might expect Redacted across the board
Assistant requirements were weakened due to regulatory constraints (and might have to dilute them further, if carriers start challenging our treatment of Amazon and Cortana apps). Can use TAC savings to structure a separate program specifically for assistant	Assistant does not generate sufficient revenues yet, we might have to include minimum guarantees, bounties, or transaction revenues to be competitive
We have security updates provisions in MADA, so taking them out of RSA would not leave us without coverage. We could have a more targeted Security updates incentives programs to accelerate the change in partner behavior	Redacted
Negotiations are progressing slowly, it might be a good point to pivot	Carriers only started active negotiations 5 weeks ago

RSA Economics: Revenue at Risk - Samsung example

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