

Note by Damian Collins MP, Chair of the DCMS Committee

Summary of key issues from the Six4Three files

1. White Lists

Facebook have clearly entered into whitelisting agreements with certain companies, which meant that after the platform changes in 2014/15 they maintained full access to friends data. It is not clear that there was any user consent for this, nor how Facebook decided which companies should be whitelisted or not.

2. Value of friends data

It is clear that increasing revenues from major app developers was one of the key drivers behind the Platform 3.0 changes at Facebook. The idea of linking access to friends data to the financial value of the developers relationship with Facebook is a recurring feature of the documents.

3. Reciprocity

Data reciprocity between Facebook and app developers was a central feature in the discussions about the launch of Platform 3.0.

4. Android

Facebook knew that the changes to its policies on the Android mobile phone system, which enabled the Facebook app to collect a record of calls and texts sent by the user would be controversial. To mitigate any bad PR, Facebook planned to make it as hard of possible for users to know that this was one of the underlying features of the upgrade of their app.

5. Onavo

Facebook used Onavo to conduct global surveys of the usage of mobile apps by customers, and apparently without their knowledge. They used this data to assess not just how many people had downloaded apps, but how often they used them. This knowledge helped them to decide which companies to acquire, and which to treat as a threat.

6. Targeting competitor Apps

The files show evidence of Facebook taking aggressive positions against apps, with the consequence that denying them access to data led to the failure of that business

1. White Lists

In the Six4Three documents, exhibits 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 94 and 95 include discussions on whitelisting businesses. The following are of note:

Exhibit 84 – whitelisting of Badoo [dating app]

Email from Badoo to Konstantinos Papamiltidas, Director of Platform Partnerships at Facebook, 16 September 2014:

‘We have been compelled to write to you to explain the hugely detrimental effect that removing friend permissions will cause to our hugely popular (and profitable) applications Badoo and Hot or Not.

‘The friends data we receive from users is integral to our product (and indeed a key reason for building Facebook verification into our apps).’

Email from Konstantinos Papamiltidas to Badoo, 23 January 2015

‘We have now approval from our internal stakeholders to move ahead with a new API – working name Hashed Anon All Friends API. The new API as well as the relevant docs will be ready next week.

‘How would this API work...For each of the FB logged in users, the API will return:
FBIDs: App friends that logged in before your migration to V2:
App Scoped IDs: App friends that logged in after your migration to V2:
Anonymous one-way hashed IDs: Non-app friends

The API will hopefully let you understand some of the structure of the graph in order to determine which non-app friends to recommend to a given user.’

Email 5 February 2015

Konstantinos Papamiltidas – ‘We have whitelisted Badoo App, HotorNot and Bumble for the Hashed Friends API that was shipped late last night.’

Email – 6 February 2015

Konstantinos Papamiltidas to Badoo

‘Badoo APP ID has definitely been whitelisted...According to our logs you have already made 100 calls against this API.’

Exhibit 87 – whitelisting of Lyft [taxi app]

Email from Konstantinos Papamiltidas to Lyft, 30 March 2015

‘As far as I can tell, the App ID below has been whitelisted for All Mutual Friends access.’

Exhibit 91 – whitelisting of AirBnB

Email Konstantinos Papamiltidas to AirBnB, 18 March 2015

‘As promised, please find attached the docs for Hashed Friends API that can be used for social ranking. Let us know if this would be of interest to you, as we will need to sign an agreement that would allow you access to this API.’

Exhibit 92 – whitelisting of Netflix

Email 17 February 2015 between Netflix and Chris Barbour and Konstantinos Papamiltidas at Facebook

Netflix wrote on 13 February

‘We will be whitelisted for getting *all friends*, not just connected friends’

Exhibit 80 – discussion about the whitelisting process

Email from Simon Cross [FB – Product Partnerships] to Konstantinos Papamiltidas [FB], Ime Archibong [FB] and Jackie Chang [FB]

5 September 2013 12.33pm

‘I’d say for now just list out the capabilities/Gks/Sitevars we want to audit...We need to build collective experience on how to review the access that’s been granted, and how to make decisions about keep/kill/contract.

‘This review cycle should include whats currently in Capabilities, as well as whitelists administered via Gks and Sitevars. I don’t want to have to go through this exercise ever again. For example, we should appraise what Netflix (for example) has across all these three whitelisting mechanisms in one go.’

2. Value of friends data

Exhibit 83 – discussion of Royal Bank of Canada neko spend alongside whether they should be whitelisted

Email from Sachin Monga at Facebook to Jackie Chang at Facebook, 10.38am on 20 August 2013 regarding the impact of the platform changes on Royal Bank of Canada

'Without the ability to access non-app friends, the Messages API becomes drastically less useful. It will also be impossible to build P2P payments within the RBC app, which would have dire consequences for our partnership with them.'

Response email from Jackie Chang to Sachin Monga, 10.46am 20 August 2013, regarding Royal Bank of Canada

'What would be really helpful for us is if you can provide the below details first:

- 2/ did they sign an extended api agreement when you whitelisted them for this api?
- 3/ who internally gave you approval to extend them whitelist access? Can you send me email or permalink from the Platform Whitelist Approval Group.
- 4/ Is there budget tied specifically to this integration? How much?

We need the above info foremost and we understand the context below.'

Email from Sachin Monga to Jackie Chang, 10.58am, 20 August 2013

'Thanks for the quick response. Answers below:

2/ They did not sign an extended API agreement. Should they have? I didn't know about this...

3/ Doug gave the approval...

4/ There is budget tied specifically to this app update (all mobile app install ads to existing RBC customers, via custom audiences). I believe it will be one of the biggest neko campaigns ever run in Canada...'

Email from Jackie Chang to Sachin Monga, 22 August 2013, regarding Royal Bank of Canada

'Let's pause any action for now until we have internal discussions about this tomorrow...we'll do the right thing to take care of this. Thanks!'

Email Simon Cross to Jackie Chang, Sachin Monga, Bryan Hurren (Facebook), 25 October 2013

'+ bryan who recently whitelisted Netflix for the messages API – he will have a better idea of what agreements we need to give them to access to this API.'

Email from Bryan Hurren to Sachin Monga, Jackie Chang and Simon Cross, 25 October 2013

‘From a PR perspective, the story is about the app, not the API, so the fact that it uses Titan isn’t a big deal. From a legal perspective, they need an “Extended API agreement” (we used with Netflix) which governs use going forward and should provide us with the freedom to make the changes that Simon mentions below (without being too explicit).’

Email from Jackie Chang to FB group, 28 October 2013

‘Bryan – can you take the lead on getting this agreement written up?’

Exhibit 79 – linking data access spending on advertising at Facebook

Email from Konstantinos Papamiltidas [FB] to Ime Archibong [FB]

18 September 2013 – 10.06am

From email about slides prepared for talk to DevOps at 11am on 19 September 2013

‘Key points: 1/ Find out what other apps like Refresh are out there that we don’t want to share data with and figure out if they spend on NEKO. Communicate in one-go to all apps that don’t spend that those permissions will be revoked. Communicate to the rest that they need to spend on NEKO \$250k a year to maintain access to the data.’

Exhibit 80 - linking data access spending on advertising at Facebook

Email from Konstantinos Papamiltidas [FB] to Simon Cross [FB], Ime Archibong [FB] and Jackie Chang [FB]

Discussion about presentation Simon Cross is to give re P3.0 Rollout Planning

4 September 2013 4.28am

‘Slide 5 – I am not sure about the revenue saved. Is this really a cost cutting exercise? Removing access to all friends lists seems more like an indirect way to drive NEKO adoption.’

Exhibit 97 – discussion about giving Tinder full friends data access in return for use of the term ‘Moments’ by Facebook

Emails discussion between Konstantinos Papamiltiadis [FB] and Tinder regarding allowing Facebook to use ‘Moments’, a term that had already been protected by Tinder

Email from Konstantinos Papamiltidas to Tinder 11 March 2015 5.34pm

'I was not sure there was not a question about compensation, apologies; in my mind we have been working collaboratively with xx and the team in good faith for the past 16 or so months. He's a member of a trusted group of advisers for our platform (Developer Advisory Board) and based on our commitment to provide a great and safe experience for the Tinder users, we have developed two new APIs that effectively allow Tinder to maintain parity of the product in the new API world.'

Email from Konstantinos Papamiltidas to Tinder 12 March 2015 1.10pm

'We have been working with xx and his team in true partnership spirit all this time, delivering value that we think is far greater than this trademark.'

Exhibit 170 – Mark Zuckerberg discussing linking data to revenue

Mark Zuckerberg email – dated 7 October 2012

'I've been thinking about platform business model a lot this weekend...if we make it so devs can generate revenue for us in different ways, then it makes it more acceptable for us to charge them quite a bit more for using platform. The basic idea is that any other revenue you generate for us earns you a credit towards whatever fees you owe us for using platform. For most developers this would probably cover cost completely. So instead of every paying us directly, they'd just use our payments or ads products. A basic model could be:

Login with Facebook is always free

Pushing content to Facebook is always free

Reading anything, including friends, costs a lot of money. Perhaps on the order of \$0.10/user each year.

For the money that you owe, you can cover it in any of the following ways:

Buy ads from us in neko or another system

Run our ads in your app or website (canvas apps already do this)

Use our payments

Sell your items in our Karma store.

Or if the revenue we get from those doesn't add up to more than the fees you owe us, then you just pay us the fee directly.'

Exhibit 38 – Mark Zuckerberg discussing linking data to revenue

MZ email 27 October 2012 to Sam Lessin at Facebook

'There's a big question on where we get the revenue from. Do we make it easy for devs to use our payments/ad network but not require them? Do we require them? Do we just charge a rev share directly and let devs who use them get a credit against what they owe us? It's not at all clear to me here that we have a model that will actually make us the revenue we want at scale.'

'I'm getting more on board with locking down some parts of platform, including friends data and potentially email addresses for mobile apps.'

'I'm generally sceptical that there is as much data leak strategic risk as you think. I agree there is clear risk on the advertiser side, but I haven't figured out how that connects to the rest of the platform. I think we leak info to developers, but I just can't think of any instances where that data has leaked from developer to developer and caused a real issue for us. Do you have examples of this?.....

'Without limiting distribution or access to friends who use this app, I don't think we have any way to get developers to pay us at all besides offering payments and ad networks.'

Exhibit 78 – selected slides showing how Neko spend and relationship to Mark Zuckerberg and Sheryl Sandberg influenced outreach to developers ahead of Platform 3.0 launch

Login v4 (+ Platform changes)

Update: 1/27/2014

HIGHLY CONFIDENTIAL

FB-01350115

Affected Apps

	Total	> 1,000 MAU	> 10,000 MAU
API callers [last 30d]	1.4M	17K	3,206
Affected apps	27,019	7,744	2,532
Affected games	3,111	1,475	521
Affected Credits apps	338	315	253
Affected Ad Spenders	89	82	60
Affected Salesforce apps	1,639	1,262	812
Affected Salesforce games	458	375	253
Affected Salesforce non-games	1,181	887	559

HIGHLY CONFIDENTIAL

FB-01352120

Key apps

	# of apps	% requesting read_stream
Mark's friends	31	76%
Sheryl's friends	66	62%
Generating TPV	332	51%
Neko spenders	831	59%
Noisy	23	82%
T0 / T1 partners	160	77%

All on a list for pre-launch outreach

HIGHLY CONFIDENTIAL

FB-01352122

3. Reciprocity

Exhibit 45 – discussion on making reciprocity a key feature of Platform 3.0

Email from Mike Vernal FB, 30 October 2012

Mike Vernal

‘On Data Reciprocity – in practice I think this will be one of those rights that we reserve.. We’ll publish a spec for an API that you have to implement to integrate with us, we’ll have POPS review, but we’ll pay closest attention to strategic partners where we want to make sure the value exchange is reciprocal.’

Greg Schechter

‘Seems like Data Reciprocity is going to require a new level of subjective evaluation of apps that our platform ops folks will need to step up to – evaluating whether the reciprocity UI/action importers are sufficiently reciprocal.’

Mike Vernal

‘As many of you know, we’ve been having a series of conversations w/Mark for months about the Platform Business Model...

‘We are going to require that all platform partners agree to data reciprocity. If you access a certain type of data (e.g. music listens), you must allow the user to publish back that same kind of data. Users must be able to easily turn this on both within your own app as well as from Facebook (via action importers)

Exhibit 48 – Mark Zuckerberg email on reciprocity and data value

MZ email 19 November 2012

‘After thinking about platform business for a long time, I wanted to send out a note explaining where I’m leaning on this. This isn’t final and we’ll have a chance to discuss this in person before we decide this for sure, but since this is complex, I wanted to write out my thoughts. This is long, but hopefully helpful.

‘The quick summary is that I think we should go with full reciprocity and access to app friends for no charge. Full reciprocity means that apps are required to give any user who connects to FB a prominent option to share all of their social content within that service back (ie all content that is visible to more than a few people, but excluding 1:1 or small

group messages) back to Facebook. In addition to this, in the future, I also think we should develop a premium service for things like instant personalization and coefficient, but that can be separate from this next release of platform...

'We're trying to enable people to share everything they want, and to do it on Facebook. Sometimes the best way to enable people to share something is to have a developer build a special purpose app or network for that type of content and to make that app social by having Facebook plug into it. However, that may be good for the world but it's not good for us unless people also share back to Facebook and that content increases the value of our network. So ultimately, I think the purpose of platform – even the read side – is to increase sharing back into Facebook.'

...'It seems like we need some way to fast app switch to the FB app to show a dialog on our side that lets you select which of your friends you want to invite to an app. We need to make sure this experience actually is possible to build and make as good as we want, especially on iOS where we're more constrained. We also need to figure out how we're going to charge for it. I want to make sure this is explicitly tied to pulling non-app friends out of friends.get.' (friends information)

...'What I'm assuming we'll do here is have a few basic thresholds of API usage and once you pass a threshold you either need to pay us some fixed amount to get to the next threshold or you get rate limited at the lower threshold.'

Response to this email from Sheryl Sandberg

Email from SS – 19 November 2012

SS 'I like full reciprocity and this is the heart of why.'

Exhibit 43 - memo setting out the policies for Platform 3.0

This document also stresses the importance of reciprocity to Platform 3.0

'The fundamental principle that governs Platform usage is a simple concept: reciprocity. Reciprocity involves an equitable value exchange between a 3rd party developer and Facebook. This value exchange involves one of the following from developers: high quality experiences that FB users can use to tell great stories to their friends and family on FB and/or monetary value in the form of revenue sharing or direct payment. In return, Facebook offers a developers access to our Platform.

'When considering the implications of reciprocity it is important to note that a second order principle quickly emerges: competitive access. There are a small number of developers whom no amount of sharing to FB or monetary value can justify giving them access to Platform. These developers do not want to participate in the ecosystem we have created,

but rather build their own ecosystem at the expense of our users, other developers and, or course, us. That is something that we will not allow.'

4. Android

Exhibit 172 – discussion of changing 'read call log' permissions on Android

From email dated 4 February 2015

Michael LeBeau – 'He guys, as you know all the growth team is planning on shipping a permissions update on Android at the end of this month. They are going to include the 'read call log' permission, which will trigger the Android permissions dialog on update, requiring users to accept the update. They will then provide an in-app opt in NUX for a feature that lets you continuously upload your SMS and call log history to Facebook to be used for improving things like PYMK, coefficient calculation, feed ranking etc. This is a pretty high-risk thing to do from a PR perspective but it appears that the growth team will charge ahead and do it.'

Yul Kwon – 'The Growth team is now exploring a path where we only request Read Call Log permission, and hold off on requesting any other permissions for now.'

'Based on their initial testing, it seems this would allow us to upgrade users without subjecting them to an Android permissions dialog at all.'

'It would still be a breaking change, so users would have to click to upgrade, but no permissions dialog screen.'

Exhibit 180 – further discussion of read call log and SMS on Android

Email from Matt Scutari, Manager Privacy and Public Policy, Facebook

15 November 2013

'Matt has been working with the privacy PM, PMM and Legal to understand privacy risks associated with several Android permissions that will go out in the next release, including permissions associated with reading call logs and SMS'

'Matt is providing policy feedback on a Mark Z request that Product explore the possibility of making the Only Me audience setting unsticky. The goal of this change would be to help users avoid inadvertently posting to the Only Me audience. We are encouraging Product to

explore other alternatives, such as more aggressive user education or removing stickiness for all audience settings.'

Exhibit 158

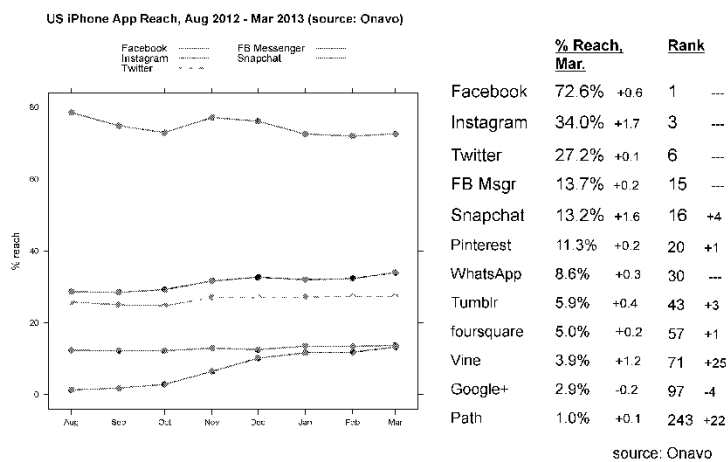
Facebook email discussing rapid growth of revenues from Neko advertising

5. Onavo

Exhibit 69 – slides from presentation showing market analysis driven by Onavo data

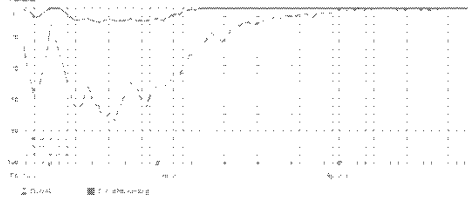
Facebook 'Industry update' presentation based on Onavo data, 26 April 2013

US mobile apps (iPhone)

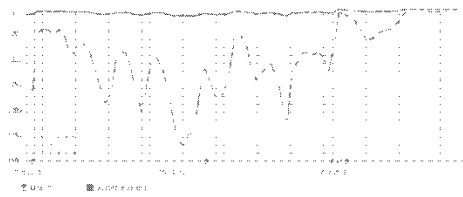


US emerging mobile apps

Vine: #1 overall / #1 social networking in US iTunes store



Path: #9 overall / #2 social networking in US iTunes store



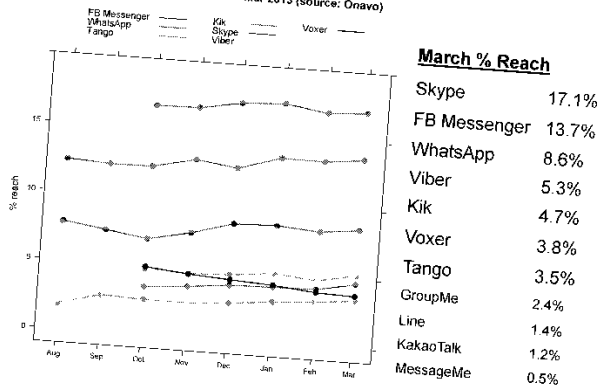
source: AppAnnie

HIGHLY CONFIDENTIAL

FB-01367814

US mobile messenger apps (iPhone)

US iPhone App Reach, Aug 2012 - Mar 2013 (source: Onavo)

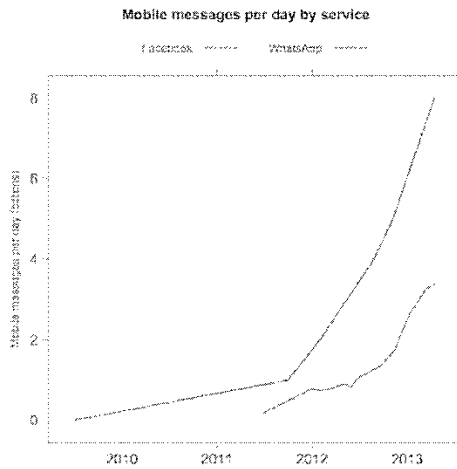


HIGHLY CONFIDENTIAL

source: Onavo; *Nielsen

FB-01367815

WhatsApp message sends



Message sends/day

WhatsApp	8.2 billion
Facebook (mobile)	3.5 billion
Facebook (mobile + web)	11.5 billion

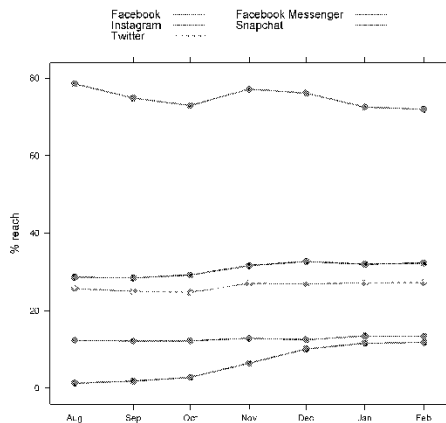
HIGHLY CONFIDENTIAL

FB-01367816

Exhibit 70 - Facebook 'Industry update' presentation based on Onavo data, 15 March 2013

US mobile apps (iPhone only)

US iPhone App Reach, Aug 2012 - Feb 2013 (source: Onavo)



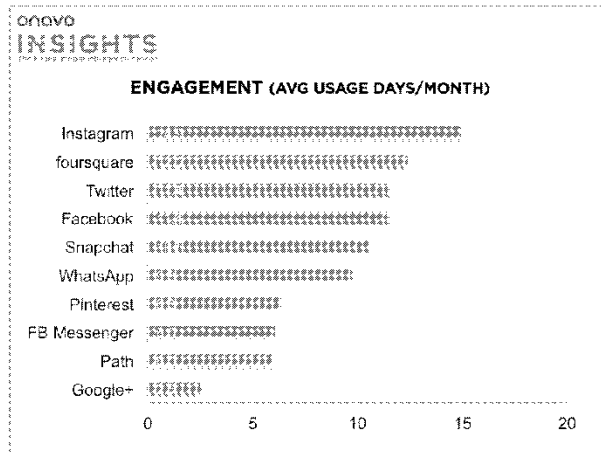
February % Reach

Facebook	72.0% (-0.5 pts)
Instagram	32.3% (+0.3 pts)
Twitter	27.1% (+0.1 pts)
FB Messenger	13.5% (-0.1 pts)
Snapchat	11.6% (+0.2 pts)
Pinterest	10.6% (+0.1 pts)
WhatsApp	8.3% (+0.0 pts)
foursquare	4.8% (-0.0 pts)
Google+	3.1% (N/A)
Vine	2.7% (N/A)

HIGHLY CONFIDENTIAL

FB-01370642

US mobile apps (iPhone only)



source: Onavo

HIGHLY CONFIDENTIAL

FB-01370643

6. Targeting competitor Apps

Exhibit 44 – Shutting down Vine’s friends data access

Facebook email 24 January 2013

Justin Osofsky – ‘Twitter launched Vine today which lets you shoot multiple short video segments to make one single, 6-second video. As part of their NUX, you can find friends via FB. Unless anyone raises objections, we will shut down their friends API access today. We’ve prepared reactive PR, and I will let Jana know our decision.

MZ – ‘Yup, go for it.’

Selected documents ordered from
Six4Three

EXHIBIT 38

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Sam Lessin
Sent: Saturday, October 27, 2012 6:50 PM
To: Mark Zuckerberg
Subject: Re: notes on platform

Back at you inline...

On 10/27/12 1:57 PM, "Mark Zuckerberg" wrote:

>More thoughts inline...

> _____

>From: Sam Lessin
>Sent: Saturday, October 27, 2012 9:14 AM
>To: Mark Zuckerberg
>Subject: Re: notes on platform

>
>Thanks for reading it through and the response.

>
>- I agree with your framing of the three questions embedded in my
>proposal.

>
>
>
>
>Regarding your notes on #1

>
>-- I do agree that 10% to 20% of a small number of businesses doesn't get
>us there⁵ just as a platform with thousands of developers who pay us
>nothing doesn't get us there. That is why I basically land on a model
>where some APIs are widely available at scale (and we get thousands of
>developers at scale) but there are a set of APIs that really are just for
>partners. Also known as, I think we need to have it both ways.

>
>>> Yeah, I think having two programs is pretty reasonable. The question
>>>to me is just what's in each program and what we get from it. My
>>>interpretation of your proposal is that we get the vast majority of the
>>>value from the companies we partner with, but I have a hard time
>>>imagining we actually have these kinds of deep partnerships with
>>>hundreds of companies, so there's a disconnect for me there. I also
>>>interpret your proposal as if we won't make very much money at all from
>>>non-partner companies, and I think there needs to be and likely is a
>>>bigger opportunity for us there.

>>>In my model, we'll define rev shares for as many industries as we can
>>>think of. There will always be some companies that don't fit whatever
>>>models we have or we want to give them deeper access in exchange for

>>>more value share, and that's what the deals are for. But I'd love to
>>>get to a state where most of the value we derive is from the open part
>>>of the platform with clearly articulated rules rather than custom
>>>partnerships.

SWL::::: I think we will get a ton of value from the companies using the
'free' APIs / non-partners... it is just that the value will funnel all
directly through our ads/distribution platform... which is not a bad
outcome at all / it is seeing platform as all about just making the
distribution business more efficient and scale better against a model
where there is natural pricing / a market. At the same time, I do think
that we will also get a lot of value out of the partners / which I really
see as a set of companies / producing a set of products which we would
probably consider building ourselves if we could...

>>>

>
>-- The problem I have with a rev-share directly, or forcing a developer to
>use our payments / ad network is that we are not connecting the value and
>the cost closely enough. If the thing that is valuable is our payments,
>they should pay for our payments if they use our payments if the thing
>that is valuable to them is the ad network, if the thing that is valuable
>is the ad network, the rev-share could be an interesting deal term at the
>high end, but is just too hard for developers to evaluate / know the
>value we are driving for them and whether it is therefore worth it to
>be on the 'platform'.

>
>>> I agree this is a big problem with my proposal. It's much easier for a
>>>developer to be able to take pieces a la carte and know what they're
>>>paying for them. Another issue that's implicit in my proposal is that
>>>it's not yet clear how a dev would disconnect the revenue share,
>>>whereas it's quite clear how you'd disconnect payments or ad network
>>>though. That said, I think there is probably a reasonable solution to
>>>these problems that would still let us get a revenue share. I just
>>>think we need to work through this a bit more. The root of my belief is
>>>that helping people sign up faster, ramp up faster and remain more
>>>engaged is fundamentally valuable. So even though it is more difficult
>>>and disconnected to value, rational actors should be able to value it.
>>>Further, I think having a market of participants will help devs value
>>>it. For example, there's no reason why 2% is a reasonable rev share for
>>>a credit card processing company to take, but since everyone else
>>>accepts it, it now seems more "reasonable" and more folks do it. If we
>>>start with the head and then open this program up more broadly, I bet
>>>we can figure out a set of reasonable revenue shares here for each
>>>industry/category.

SWL::::: Yes, the 'how does a company disconnect' bit is a really big one
to call out in this context. RE: the concept that helping people sign up
faster, ramp up faster, and remain more engaged as 'fundamentally

valuable' -- my believe is that these things are valuable, but not at all infinitely valuable (actually, to the contrary, they are quite measurably valuable). We aren't the only ones that can help people signup/ramp up faster/ remain more engaged, we exist in an ever more competitive marketplace for these services. Also, the reality is that the value of a marginal customer / a customer that would 'bounce' without us is measurable and usually relatively low for all companies except for networks which are looking for initial traction.... Which begs exactly the question of long-term lockin.

Think of this from our perspective. If we had had some magic 'engagement' product we could have bought early on as a company it would have been worth a ton to us in the short term / we would have paid a lot for it for the first few million users (just as we are willing to pay a lot to get early users in new markets via search ads, etc.) -- once the flywheel is going, it is worth something to us... but honestly not very much, both because we would inevitably develop our own cheaper routes with time and money if the cost was anything but completely nominal OR because we would get to the point that the marginal user isn't economically worth that much to us (the situation we currently face)

>Regarding your notes on #2

>

>-- Reading your responses, I do think you are right, I am being stark. I
>worry about mobile messaging apps, etc. and I probably need to temper
>that in my own thinkingŠ the irony is I would be more comfortable with
>competition if I thought we knew better how to leverage our scale asset
>(and if scale weren't' becoming cheaper and cheaper to achieve every day).

>

>-- What I think is that we should effectively not be helping our
>competitors more / much more than how they could get help from elsewhere
>in the market. They can acquire users in ways other than usŠ so
>obviously we shouldn't be failing to take their money when they will just
>give it to someone else and get the same outcome. I do, however, again
>think that we want as much control here as we can get.

>

>>> I agree we shouldn't help our competitors whenever possible. I think
>>>the right solution here is to just be a lot stricter about enforcing
>>>our policies and identifying companies as competitors.

SWL::::: AMEN

>

>

>

>Regarding your notes on #3

>
>-- On whether the things developers contribute to the system are valuable
>to us or not. In my mind they are really only valuable if users want them
>/ either because they value the self expression or drive engagement. If
>they do neither, then I do not believe that applications writing to
>Facebook is currently worth much -- AND I believe that if they do neither
>there are other ways for us to work with developers more efficiently to
>get the value from the data they collect from users.

>
>>> I think it's quite possible that developers writing to the graph today
>>>drives no incremental engagement or information targeting value for us.
>>>I do think users appreciate the ability to share things and that
>>>probably helps us somewhat, but I think users also like having the
>>>ability to take their info out of Facebook and we're considering
>>>charging for that. By charging for distribution, we'd essentially be
>>>building a way for users to access those features, but developers have
>>>to pay us for them.

SWL::::: I think we need to provide DLYD obviously, and you are right
that some power-users do appreciate the ability to take data out in
general / push it to other services.... I think this is something we can
manage around. I do think it is basically zero cost to us to allow
applications to write content on behalf of users, but we should just think
of it as that -- which is allowing apps to fulfill a user need... re: the
distribution, I don't think we should under-weight distribution from apps,
I just don't think we should over-weight it -- and I think that if the
real value translation is apps publish data to Facebook because users want
to publish data to Facebook, then we should do the right thing by users
around creating good experiences vs. worrying about pushing 'traffic' back
to apps (aka, go with snow-box type solutions for third party photos and
pinterest pins rather than pushing the user out to the site.

>-- Really what this boils down to is that I think developers are rational
>business actors. They will not give us structured data which is actually
>valuable to us unless users demand it.

>
>>> Agreed.

SWL::::: AMEN

>
>-- Again, I think we just need to get away from thinking about a developer
>'using' platform or not / or that we can 'tax' platform as a whole. We
>have a series of APIs, just like amazon web services, etc. the decision
>to rely upon / use or not use any service we provide is really an
>independent business decision. I think that saying that in order to

>'publish' to Facebook, or in order to get a UID for one of your users you
>must implement our payments or ad-network, or pay us a percentage of
>revenue is just too abstract for rational decision making

>
>>> I'm not sure I agree with the overall point here. I agree it would be
>>>ideal if we could make everything a la carte efficiently, but it
>>>doesn't seem like we can do that and that realization is leading us
>>>down a path of minimizing development and access to an important piece
>>>of platform that I think devs do value (the read side). I do agree it's
>>>difficult for a dev to think about whether the value exchange is fair
>>>theoretically, but if we can get a few folks on board then I think we
>>>can start to establish a market norm and more folks will do this.

>
>>> In some ways, I actually think an overall tax is the most efficient
>>>way to do this. If the most valuable aspect is distribution and if
>>>charged a la carte for that, then I do think that would encourage
>>>developers to be sparing and economically efficient about when they
>>>write data to Facebook. However, if we have an overall tax and then
>>>writing is free within that, then their incentive is to get as much
>>>value out of the integration that they're paying for as possible.

SWL:::: I don't agree -- but I do understand your perspective. I really
just can't see any developer making the % revenue trade with us for a
bundle of services some of which they value, others of which they may not,
and overall where it is really hard for them to know what is what
(especially over the long term)

>
>
>-- Today we have (or think we have) more efficient engagement and
>re-engagement tools than anyone else, and we pretty much have a functional
>way of pricing it and having developers rationally evaluate paying for it.
> That is great. We should be leveraging that all the way

>
>-- Today we also have some functions on a platform which our users want,
>we are at least neutral on, and therefore developers implement (ideally).
>It is unclear exactly how much our users want the functions, but the
>things that are strict user benefit and no cost to us we should produce,
>though we should think of the eng tradeoff / just as another feature of
>Facebook.

>
>-- Tomorrow we should have things like a payments solution and ad-network,
>which should be better than everyone else's / should be able to compete in
>the marketplace on their own; however, only marginally so -- and as a
>result probably not in a way that we can rationally demand a huge premium
>(though I am sure we can demand some premium)

>
>>> It's not clear to me that our solutions here will be automatically
>>>better than alternatives for a while. And even if they are better, then
>>>what we have is a payments or ad network platform and we still don't
>>>have an information platform. This is part of what I don't get here. If

>>>the value is in the information platform (read/write) then trying to
>>>make money from payments/ads seems pretty disconnected and inefficient.

SWL::::: I hear you... basically tho, my view is that we should only develop payments APIs if we have a reasonable belief that we are going to be able to provide better payments APIs than competitors (more cost competitive, etc.)... Same with an ad-network... valid things for us, but they have nothing/little to do structurally with being an information platform directly when presumably if all we want is the 'data' that comes off of having an ad-network, or the 'data' that comes off of having a payment platform we can get that information other ways.

>
>-- Finally, if we are going to have another return on scale business other than attention, we need for that business to stand on its own / be a rational trade in and of itself for us and for developers. Unfortunately, the dynamics around data are just complicated enough that I think we end up in a world with maybe 100 or 200 partners for the next few years, not everyone -- and we have templated, but not formalized terms.

>
>>> I generally agree with this point, but I wonder if we can't both get >>>to scale in terms of getting people to write to us and also get them to >>>pay us for it. As an analogy, it's good for us that devs build games >>>inside FB. We could have made the argument that it was good for us so >>>we shouldn't tax them, but in reality by taxing them I just think we >>>got to a state where we both got the games and made more money. We >>>likely lost some games, but I think we generally maximized profit.

>
>>> Overall, I'm just pretty optimistic about this idea of being an >>>"identity" service and establishing that as a layer of the app >>>development stack so the norm is that developers pay for it. Maybe >>>identity comes with the ability to push content to a person's friends, >>>or maybe it just comes with the ability to ramp up a new user more >>>quickly and connect them to friends and interests. But this does seem >>>like it should be a real thing to me that should stand on its own and >>>not just be a loss leader to push lower margin payments and ad networks >>>products.

>
>
SWL::::: I believe we should always charge what the market will bear to others companies in the ecosystem... but not more than what the ecosystem will bear. For payments, or an ad-network, we have competitors. Either we can produce better products in these spaces which in a head to head competition can beat other solutions on value, or we can't. IF we can, we can make money, if we can't then we will not. Same goes for our distribution business.

In the canvas case, developers basically had no other option when platform

was succeeding for games. Now we compete with the mobile platforms, and while we still have a decent enough position for games to generally get away with taking real-estate on web + 45% of revenue, I also think the best developers / the best games have left, and what we really have is a set of games made by people who see a financial opportunity to hack our system for free attention... I am not proud of the fact that we are currently extolling 'game' companies that make online slot machines as positive examples of those willing to pay our fees (I am fine with it, just not proud of it)

I am totally bought into our identity business in the sense that giving apps the ability to uniquely get identifiers on all their users is a huge huge deal ... the question is only what do you do with that / how do you match it up with an economic model... and I think we need to couple the identity value + services, where our services are better because of identity (be they engagement / re-engagement, an ad-network, or payments with better built in fraud detection).... The only thing we should be careful of is making sure that we are selling things in ways developers can rationally evaluate and want.

SWL::::: Obviously happy to (1) continue this conversation (2) not continue it if the marginal value is now too low.... One thing I intend to do next is basically wireframe out very roughly what our developer landing page / sales page, could look like under a more 'holistic' % fee scenario and under a more a-la-carte model. I think that putting some practical screens up on how things could look in mid 2013/2014 might be helpful...

Sam

>
>
>
>
>
>
>On 10/27/12 6:06 AM, "Mark Zuckerberg" · wrote:
>
>>I think I understand your proposal.
>>
>>It seems like it really comes down to three main questions:
>>
>>(1) What is a revenue model that scales to build the kind of business we

>>want?

>>

>>(2) What is a read model that reduces the strategic risk to our business
>>(and doesn't undercut that revenue growth)?

>>

>>(3) What is a model that developers will participate in rather than
>>abandoning?

>>

>>Now going through each of them...

>>

>>For (1):

>>

>>- I agree with your argument that we need to get some value proportional
>>to the value we create as opposed to a fee on our costs for this to work.
>>I'm generally sold on that.

>>

>>- I also agree with your argument the other day that whatever we do needs
>>to be very widely adopted. Having 10-20 partnerships where we own 10-20%
>>of the companies isn't where we want to be either. The underscores the
>>importance of question (3) and developing a model that many developers
>>will go for. I am not sure how this foots with doing a lot of of specific
>>deals though. In theory we could do an infinite number of deals, but in
>>practice a strategy of making deal seems explicitly like a strategy to
>>work with a smaller number of companies, which may by itself prevent us
>>from reaching the long term revenue goals we have.

>>

>>- There's a big open question on where we get the revenue from. Do we
>>make it easy for devs to use our payments/ad network but not require
>>them? Do we require them? Do we just charge a rev share directly and let
>>devs who use them get a credit against what they owe us? It's not at all
>>clear to me here that we have a model that will actually make us the
>>revenue we want at scale.

>>

>>For (2):

>>

>>- I'm getting more on board with locking down some parts of platform,
>>including friends' data and potentially email addresses for mobile apps.

>>

>>- I'm generally skeptical that there is as much data leak strategic risk
>>as you think. I agree there is clear risk on the advertiser side, but I
>>haven't figured out how that connects to the rest of platform. I think we
>>leak info to developers, but I just can't think of any instances where
>>that data has leaked from developer to developer and caused a real issue
>>for us. Do you have examples of this?

>>

>>- I also think your argument about not selling down our advantage is too
>>rigid. Businesses pay for new customer acquisition and then for
>>reengagement. Eventually you run out of new customers and need to focus
>>more on reengagement. We shouldn't prevent ourselves from helping
>>business get new customers just because one day they might run out of new
>>customers to acquire. It doesn't scale infinitely, but it does scale
>>pretty far.

>>

>>- I also think your argument about how we help competitors is too black and white. In reality, we do this with distribution too. We let most competitors buy ads. And even if we didn't, we'd let other media companies buy ads, and then our competitors could buy ads from those companies. At some level I think helping your competitors is a fact of life. We need to make sure we're not doing this to an extent that it destroys us, but we also shouldn't be so rigid as to rule out any model where competitors get benefit from us.

>>

>>For (3):

>>

>>- I think what developers will be willing to bear is the biggest open question here. No one knows this for certain and a huge amount obviously hinges on this.

>>

>>- I do agree that if we give away distribution and login for free, then basic info alone isn't enough value to command a meaningful revenue share.

>>

>>- That said, this makes me wonder if we need to question our assumptions on what we want to be free. If what developers mostly value is distribution (which we're currently not charging for), then I think we really need to ask the question of whether we're actually getting value from this. In theory we want information, but are the posts developers are giving us actually valuable? They don't seem to be for targeting and I doubt they drive meaningful increases in engagement either. That suggests that from an information perspective perhaps these aren't so valuable for us. They aren't negatively valuable, but if there's a big disparity between what developers get and what we get then perhaps charging for this isn't so crazy. I'm not yet convinced this is the right thing to do, but it seems at least worth thinking about to me. If we were strategically okay with not giving this away for free, then I think many more developers actually would accept a rev share to enable their users to connect with FB and share back to us. If we did this, we'd see some dropoff in developers, but I'm not sure how much. The distribution is very valuable for developers and as long as the rev share isn't onerously high then I bet most would stick around. And counterintuitively, once devs were paying for this, they'd probably be more invested in getting the most out of the integrations so they'd likely invest more and actually push even more info into FB.

>>

>>- Without limiting distribution or access to friends who use this app, I don't think we have any way to get developers to pay us at all besides offering payments and ad networks which can stand by themselves and compete with other companies' services. But at that point we still don't really have a sustainable platform; we just have a good payments service and ad network. So that might make us more money, but over time we'll shift our energies towards building those services and we still won't develop a great platform.

>>

>>

>>
>>From: Sam Lessin
>>Sent: Friday, October 26, 2012 10:51 PM
>>To: Mark Zuckerberg
>>Subject: notes on platform
>>
>>Zuck,
>>
>>I have been going through iteration after iteration on the platform story
>>trying to suss out a perspective that feels strategically right in the
>>long term / as a set of guiding principles AND which is implementable and
>>functional in the short term. Obviously I know you have been thinking
>>about this a lot as well (along with a lot of other smart people) and I
>>am happy to get behind and drive whatever you want to land on; however, I
>>do want to try to share my full thinking with you / the perspective on
>>which I have landed. This is longŒ sorry.
>>
>>
>>Uncharacteristically, I would like to start with what I think we should
>>practically do, and back out to the 'why' rather than visa versa.
>>Practically, I strongly believe that we should operate platform in the
>>following way:
>>
>>(1) Applications can write to the graph freely.
>> - (A) They can write information on behalf of a user to the user's
>>timeline (so long as they have collected the necessary 'write'
>>permission)
>> - (B) They can write information on their own behalf (in the voice
>>of a 'page', as an 'advertisement', adding information to their CRM
>>against a UID, email, etc.)
>> - (C) We can choose to show the content they write to the graph on
>>their own behalf or that of users in newsfeed as we see fit / to maximize
>>the consumption experienceŒ and if applications want they can 'boost' /
>>trump the auction
>>
>>(2) Applications can use 'Facebook login' freely & have many avenues to
>>getting user's IDs
>> - (A) Any app can choose to have their users login with Facebook,
>>and if they do we will give them the user's UID (not a hashed ID)Œ
>> - (B) We will / can also open up other avenues for giving
>>applications UIDs / Identifiers that allow them to better leverage our
>>system (via email matching, invisible pixels, cookies perhaps, mobile
>>tracking, etc.)
>> - (C) We need to have terms that make it clear that sharing UIDs
>>across applications is not OK, and stringently enforce
>>
>> - (D) We should develop things like a payments API that sits on top
>>of these IDs and has its own fee structure at a flat rate
>> - (E) We should develop things like an ad-network that sits on top
>>of these IDs and has its own structure for paying developers at a
>>market-defined rate
>>

>>(3) -- Reading 'Basic Information' freely

- >> - (A) Applications can ask permission of users to read 'basic information' which a user would otherwise provide when registering for their service freely
- >> - (B) Applications can ask for the UIDs of a user's friends who is also using their application freely
- >> - (C) Users should be actively encouraged to engage with the information they are giving applications

>>

>>(4) -- Reading/Using Non-'basic' Information & functions

- >> - (A) We should develop a whole set of non-basic information datasets and APIs which encompass:
 - >> -- (1) User Data which doesn't reasonably fit into something which an application could ask for themselves as part of registration / which other services cannot provide
 - >> -- (2) Facebook insights / data (coefficient, trust, etc.)
 - >> -- (3) An Oracle API for things like 'twinning' / making specific decisions about a user based on a application provided signal
 - >> -- (4) Eventually, a brokering business where applications other than Facebook can provide insights to other applications (and we can run a marketplace in-between)
- >> - (B) These data-sets become leverage able openly via our ads-targeting / distribution channels
- >> - (C) We can provide some sort of very low testing limit on most of these APIs for free, but to use them at any scale is a conversation with our BD folks.
- >> - (D) These APIs are best thought of as white-list / internal APIs which if you are owned by us, or a close ally, we will open them up for you.

>>

>>(5) -- Competitive exclusions & stuff to deprecate / change that now exists

- >> - (A) We should dramatically increase our enforcement of competitive exclusions, and actively suggest to application developers that even if they are small they should check with us first if they are worried about our definitions
- >> - (B) We should turn off all APIs that don't fit the 'registration' litmus test of #3, while maintaining them on a 'white list' basis for bucket #4 if we want (things like the full friends.get, the messaging APIs, etc.)

>>

>>

>>Upshot: where this nets out for me is that we end up with Œ.

>>

- >>-- (1) an open, stable, and free platform for writing data to Facebook, getting the information you need to wire up a set of users you have engaged, and all the IDs / hooks you need to actively participate in our attention market (buy ads) as well as leverage any other services like payments or an ad-network we may want to offer in the future
- >>-- (2) an ever increasingly valuable set of proprietary APIs for richer

>>information, etc. which are not openly available beyond perhaps a 'free
>>sample', but which allow us to 'project' into the ecosystem the value of
>>a *hopefully* ever deeper data-sets. giving us the ability *hopefully*
>>to participate in a variety of deeply socially enabled businesses which
>>ideally we would build ourselves if we could, but in a heterogeneous
>>enough set of industries with different margins and properties that it
>>would be impossible for us to price effectively.

>>

>>-- (3) we have some 'starter' APIs which are free, and then we try to
>>directly associate the cost of a given API for a developer with the API's
>>value to that developer, rather than trying to subsidize one API with
>>another, or put developers in a hard to measure / opaque position where
>>they don't exactly know if using platform holistically is worth it to
>>them. so where there is an easy way to do that (advertising on FB, ad
>>network on app partner, payments API) we can have very transparent
>>pricing, and where it is not easy to do that we have to have a
>>conversation / negotiate.

>>

>>-- (4) the messaging to the ecosystem becomes that we are deprecating a
>>few things for privacy reasons / to simplify our model for users, we are
>>enforcing non-competitive terms we have always had, and we are opening up
>>a series of new white-list APIs for the best companies that want to build
>>the best social services and want to work with us deeply.

>>

>>

>>~~~~~

>>

>>The above stated, let me try to justify it. starting by walking through
>>the incentives / perspectives of each of the parties to our system.

>>

>>Users (in brief)

>>The user incentives around platform are pretty straight forward in the
>>abstract / long-term, though there are some quirks to pay down
>>shorter-term. Over time, users just want to have amazing experiences in
>>the physical and virtual world enabled by social. First, they want great
>>apps where they can find and interact with great content and experiences
>>with their friends. They certainly don't want to have to 'sign in' to
>>anything with different passwords, etc. Over time I think they will want
>>applications to help them express themselves so that they can have more
>>custom experiences / better experiences of the world, and I think they
>>will eventually appreciate things like ever better targeted 'ads' as a
>>real benefit. I also think they fundamentally want control.

>>

>>Developers/Businesses (in brief)

>>Developers are rational actors that fundamentally want to make as much
>>money as possible. Plain and simple. The days of application developers
>>without a business model / building projects for fun are rapidly
>>disappearing. There will always be people hacking / playing, and every
>>once in a while we will have a chat roulette, but the reality is that the
>>app ecosystem has professionalized and anyone building anything of scale
>>/ import are going to act like rational consumers of services / APIs. To
>>run businesses, what developers need from us is the following (1)

>>Stability. They need to be able to project / model forward for years at
>>a time in order to get cheap capital to build, and know how to
>>efficiently and effectively scale their businesses (2) Measurability.
>>They need to be able to know what their costs are going to be, and how to
>>maximize their profits efficiently which means that the easier we can
>>make it for them to tie together costs / revenues / and profits the
>>better (3) Services which make them more efficient than their competitors
>>at acquiring, re-engaging, merchandizing / creating great user
>>experiences, and monetizing their users. (4) Strategic flexibility /
>>option value that translates into valuation. There may be some minor
>>value for developers in having fewer partners vs. using a wider range of
>>services by different providers, but ultimately in a world of well formed
>>APIs they will swap in-and-out providers at will to get the most
>>effective systems / cheapest rates / etc.

>>
>>Facebook (in a tad more depth and with a detour through our business
>>model)
>>Our mission is to make the world more open and connected and the only
>>way we can do that is with the best people and the best infrastructure --
>>which requires that we make a lot of money / be very profitable. My
>>assertion is that for us to be very profitable over a long time, we have
>>to be in businesses / have a business model where we get more profitable
>>the bigger we are (a return on scale business). Conversely, we cannot
>>be in a commodity business or 'sell off' our assets in a way that
>>transfers wealth from ourselves to others.

>>
>>There have been three paths to sustainable robust margins historically.
>>(1) regulation / having a powerful monopoly like a state dictate that you
>>are the only way to do something (2) proprietary expertise / knowing
>>something or having the structural ability to produce goods and services
>>that no one else can (the coke formula) (3) being in a business with
>>natural return on scale dynamics (where you are more profitable because
>>you are bigger). Neither regulation nor expertise are actually good
>>ways to be a non-commodity business for us. Regulation is obviously an
>>unappealing course / not at all interesting, and is something I list only
>>for completeness/looking at history. Expertise doesn't work when
>>infrastructure is commoditizing rapidly & given the talent dynamics of
>>the technology industry. Return on scale must be our bet as a company.
>>so, we need to focus on businesses where we are better / more profitable
>>than everyone else because we are bigger than everyone else.

>>
>>Currently, the thing which we provide which is not commodity / where
>>there is real return on 'scale' is DISTRIBUTION at 'scale' the reason
>>that distribution has return on scale dynamics is largely because a
>>certain set of 'brand' advertisers crave it deeply, and they have very
>>few options for buying it (Facebook vs. TV). Brand Advertisers crave
>>'scale' for three reasons (1) they are in businesses themselves where
>>they are profitable enough that it is worth them talking to a huge number
>>of people imprecisely in order to reach just a few new customers (2) They
>>have developed expertise in generating an image / content where an
>>initial paid marketing buy gets supplemented with word of mouth / free
>>social diffusion of their message over time and space (3) They have

>>developed the ability to measure / feel like they can measure the
>>effectiveness of how they spend.

>>

>>However, the problem is that most businesses (local, etc.) don't fit into
>>the bucket where they can advertise on a 'brand' basis. (1) they aren't
>>profitable enough to speak to many people imprecisely to just reach a few
>>new customers (2) they don't have the expertise to generate the creative
>>they need to get 'free distribution' multiplier (3) They can't measure
>>well enough to know what to spend. upshot, not everyone can be a brand
>>advertiser, actually most people can't. There are also several problems
>>with 'brand' advertisers being our 'non-commodity' business. (1) there
>>are new ad networks / platforms / tools which chip away at the
>>defensibility / non-commodityness of 'scale', (2) we are running out of
>>humans (and have run-out of valuable humans from an advertiser
>>perspective) (3) brand advertisers will get better, but they aren't that
>>good at measuring their spend, so they have finite budgets. -- The
>>upshot of which is that while being 'big' does provide us a return on
>>scale currently, it isn't something which we are going to be able to more
>>than 2X-4X in my mind anytime soon, and in some ways I think we will face
>>increasing pressure on the value we derive from our distribution scale.

>>

>>The second thing which we provide which is non commodity / where there
>>*may be* return on scale is 'information' about people. this is far less
>>tried and true than the return on scale of distribution, which is well
>>understood and practiced. but as far as I can tell, it is the bet we
>>need to make as a company if our ambitions are long-term and grand, and
>>to me at least it feels right. For instance, if you look historically,
>>it was in many ways information which actually got us 'scale' rather than
>>visa versa. One of the things that puts us currently in a very
>>defensible place is the relationship we have created between people using
>>Facebook all the time, and us having the information we need to make
>>Facebook a better product. This is the fundamental insight in something
>>like coefficient. We know more about what people want to see because
>>people look at more stuff on our platform. In this respect, while there
>>are other ways to get close, it feels viscerally correct that there is an
>>ROS dynamic at play. the more people that use the system, the more
>>information we have on how to make more people use the system.

>>

>>The challenge comes in not when we use the scale of our own information
>>to drive our own business platform, but when we try to leverage the
>>information with other parties to the system / businesses which we
>>want to do on the premise that we practically cannot build everything
>>that can benefit from 'social' / the information we have for a host
>>of reasons. The first part of the challenge is that packaging
>>information alone is not valuable, rather, the value of information at
>>scale must be expressed indirectly / through other vehicles. The second
>>part of the challenge is that because information is infinitely copyable,
>>it is hard to 'sell' without giving others 'scale', and since the value
>>of scale is always relative / not absolute so the risk becomes that by
>>monetizing your value you also destroy your value (because generally
>>people only need by information once, and two entities with the same
>>information will race to the bottom on the price of re-selling that

>>information since there is no cost of goods sold).

>>

>>With these challenges in mind, there are two clear channels via which to
>>monetize information (1) Advertising / engagement & re-engagement
>>(Information makes distribution more efficient / effectively ads a
>>multiplier to our first return on scale business) (2) Merchandizing /
>>customization (Information allows companies / people to do better things
>>for their customers, on top of which they can scale revenue and
>>profitability NB: things like risk assessment fit in here).

>>

>>Mixing information with distribution to create value you can measure is
>>relatively straight forward. You simply allow ways of targeting messages
>>extremely narrowly / leveraging everything known about any person. This
>>effectively makes advertising more efficient / contextual. The
>>efficiency gains in the system create more margin for us to take. The
>>best part about this is that the market should 'price' the information
>>efficiently over time. You do still risk 'leaking' information via
>>clicks on ads, etc; however, this is a very slow leak, and can be mostly
>>dealt with via policies / limiting the use of data to the party that ran
>>the ad.

>>

>>Converting information into better 'merchandizing' means giving a third
>>party the data to use as they see fit. There should be a bunch of value
>>here, but there are also a lot of issues. Specifically, unlike the
>>distribution market where there is a real / natural scarcity and everyone
>>competes in one finite marketplace (ultimately bracketed by the 24 hours
>>in the day), the value to a developer of being able to provide better
>>'services' is extremely conditional on who the business is / what they
>>do. It varies widely from industry to industry and company to company
>>and can change dramatically based on exactly what information exists /
>>is exposed to them via the system.

>>

>>Upshot. The number one threat to Facebook is not another scaled social
>>network, it is the fracturing of information / death by a thousand small
>>vertical apps which are loosely integrated together. This will either
>>happen because there is fundamentally no 'return' on the centralization
>>of information / the graph OR it will happen because we sell off the
>>graph piecemeal for less than it is worth and in the process destroy
>>efficiency and value.

>>

>>

>>When User/Developer/FB incentives meet / come into tension
>>Where I come out is that there are (1) parts of platform where we benefit
>>from everyone interfacing with us, like apps publishing for users and
>>apps having Facebook IDs for their users. We don't want to tax those
>>actions directly / we just want them broadly and widely adopted because
>>they drive value for our users and for us in the form of services you
>>enable on top of them. That said, we also don't want to orthogonally
>>subsidize them. If users don't want apps to publish for them / we can't
>>create a compelling enough experience, then we should fix that rather
>>than subsidizing / incentivizing with orthogonal value to developers
>>(2) There are other parts of the platform that we currently provide which

>>have some value, but the value is not very deep or meaningful (basic
>>info)Š we hypothetically could charge for those parts of the platform,
>>but it wouldn't be enough money to matter at this point -- it is too easy
>>for applications to get it elsewhere (3) Finally, there is what I hope
>>can become / will be the deep value of Facebook (something like
>>coefficient)Š the problem is that where the deep value is we don't want
>>to under-price the value, or over price what an app is willing to pay --
>>and that forces us to basically just give a taste and then be ready to
>>negotiate dealsŠ. going line by line --

>>

>>

>>Applications *should be allowed* write to the graph freelyŠ.

>>- Currently rational applications / the free market of apps currently
>>write to Facebook primarily because we give them 'free' distribution
>>(engagement and re-engagement), and they do so in a way which maximizes
>>the free resource we give them over user value / demand right up to the
>>line where a user would 'un-install' the app / not give them the right to
>>publish on their behalf. While that makes logical sense as a game plan
>>for them, what we want to be the case (and is the case for some of our
>>favorite apps like Instagram) is that they write to the Facebook graph in
>>order to provide user value / because users demand it to express
>>themselves. We are still pretty far away from being in a place where the
>>app writes to the data for the publishing user, and where we show that
>>content on the publishing user's timeline, and to people in feed as a
>>user value, but the only way that a free and open publishing channel
>>works is when it is moderated by invested users and both sides of the
>>equation are factoring for their benefit. -- UPSHOT / uncontroversial ;
>>we don't want to limit the ability for apps to write on behalf of users
>>openly and freely, but we need to keep investing to make sure that users
>>are moderating it / want the apps to do itŠ apps also should obviously be
>>able to write on their own behalf (as a page, CRM data, etc) at willŠ and
>>if the data they are writing on behalf of users and or their own behalf
>>helps them target ads better / acquire or re-engage users more
>>efficiently, that is good / healthy for the whole system.

>>

>>Applications *should be allowed* to use 'Facebook login' freely & have
>>many avenues to getting user's IDs

>>- Applications currently use Facebook connect by-in-large in order to (1)
>>get the 'friend' graph that enables their service to be compelling, (2)
>>get the publication rights that resolve to free distribution for them (3)
>>sometimes for the minor benefit of speeding signup* (though in reality FB
>>converts worse than non-FB signup in many cases now) (4) sometimes for
>>the minor benefit of providing easier login for users, (5) in a very few
>>cases for specific access to a specific type of Facebook data (photos,
>>etc.)Š what they don't do in general is implement Facebook login in
>>order to get user's UIDs and thereby better engage/re-engage them,
>>advertise more effectively, and/or in order to use things like a connect
>>payments solution or get higher CPMs/CPCs on a future tense advertising
>>network. The trade we should be pushing on / trying to establish with
>>companies is not that Facebook login is in-and-of-itself good, but that
>>by doing it we end up providing you as a company easy to understand, and
>>easy to value benefits either on the cost side or the revenue side of

>>your business. --- UPSHOT: Right now I believe that if you asked an
>>application to implement Facebook connect but didn't give them the friend
>>graph, publication rights in the same dialog, etc. people would have no
>>reason for implementing it at all. There is no direct value for
>>implementing FB connect. I think that as we add / if we add good
>>services on top of FB connect / having users logged in like payments/ad
>>network (which monetize on their own obviously) and better paid
>>acquisition channels (which are easy to create a marketplace around and
>>are easy for apps to measure / evaluate, then we have businesses in those
>>areas, and we will want FB connect distributed as widely as possible / we
>>will not want to charge for it.
>>
>>Applications *should be allowed* to read basic information freely
>>- Applications currently get a bunch of 'basic information' and users are
>>not confronted with exactly what they are giving to apps. We give out a
>>lot of things under 'basic information', some of which really weaken our
>>competitive position like 'email addresses' by opening up a non-facebook
>>channel for applications to reach out to users. This has troubled me
>>greatly; however, I have come to terms with the fact that for friends
>>already using the app, we simply can't remove what we have already
>>promised and enabling the function provides a ton of user value / value
>>for the world while still making the app go back through our platform for
>>real new-user acquisition. For things like email, name, profile photo,
>>etc. making these signup elements slightly easier for an app certainly
>>erases some cost / makes the app more valuable, but we really aren't in
>>competitive landscape where these things have meaningful value / where we
>>could charge a lot for them. First, a user will just give them to the
>>app if the app is good. Second, tons of other people like apple can now
>>give out the same information. --- UPSHOT, we should give this
>>information away because it has become worthless to us and allowing users
>>to give away their own basic info provides value to them.
>>
>>Applications *should be allowed* to read/use non-'basic' Information &
>>functions with some key caveats
>>- A scant few applications currently really use any of the APIs we offer
>>beyond the basic information APIs. Most of the companies that use these
>>APIs (message send, photos export, feed.get, etc.) exist in a competitive
>>grey zone. generally speaking though, there isn't currently all that much
>>more you can do with our platform (though we have contemplated a lot of
>>things that would add a lot of value to other partners). This is the
>>category where I would put all my eggs in terms of building a dataset
>>which has real return-on-scale dynamics / our actual information
>>monetization scheme. As we build up value in this type of data we should
>>certainly / will certainly feed it into the market-mediated ads system.
>>That should easily create more value for all if enabled widely. the
>>question is who do we give the actual data out to and on what terms.
>>Here we face an issue. which is that the same data is just worth
>>massively different amounts to different players. If we price it too
>>high apps will not consume it, if we price it too low we are giving away
>>one of our only scaleable profit centers. If we give it to competitors
>>we are sewing the seeds of our own destruction. and if we give it out on
>>any general model we are going to lose the ability to effectively

EXHIBIT 43

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

Platform 3.0 Plan

The following outlines the changes that we are planning to announce with the roll out of Platform 3.0. We will announce all of these changes out at the same time in a single blog post that starts the clock ticking on a 90-day migration. This 90-day migration window is the standard that we adhere to in Platform and helps developers handle large changes in features (this is especially important for native mobile developers which have a much longer lead time). We will make all API/permissions changes available in the migration so developers can test against these changes. We will make the review tool and new APIs available before the migration takes effect. We will make all tooling/policy changes available on the day the migration is turned on by default.

Timing

We have the following rails that will inform the timing of our announcement and roll-out. Our next migration window opens on June 26. If we decided to snap to this date that would put these changes live on Oct. 2nd. In terms of implementation, looking at the schedule for app review and SWAG for the APIs, it appears that the needed functionality should come online in August. Based on the above, a reasonable schedule is the following:

1. June 26: Announce Platform 3.0 on the developer blog, making the API/permission changes available under a migration.
3. Aug ??: Bring the App Review tool and new APIs online start testing with a limited set of developers.
4. Oct. 02: Default the migration to on and review all new apps.
5. Oct. 14: Begin to review apps for policy violations.

[Note: Need to talk to Sean about the impact of these changes on games developers to see if this schedule works. We may need to accelerate the API development. Ideally we could be in position to have the new APIs in beta when we announce the migration.]

Changes to Permissions and APIs

Facebook Replacement APIs: We are removing the ability to request permission and read data from the user's stream, notifications, and inbox (message/thread). These features are used primarily for apps that attempt to recreate the Facebook experience on other devices. We will still make these APIs available to a limited number of select partners were it makes sense (phone OEMs, etc).

Friends Data: We will reduce the scope of the friends' data that a developer can request and access from users. Specifically, we will change the /friends Graph API connection to only return the user's friends that are already connected to the app. In addition, we will no longer support friends_* permissions or data access.

New APIs: In order to help developers address scenarios for which they utilize the above APIs, we are going to make two new APIs available: Suggested Friends and Recommendations. Suggested Friends will help developers pick the right app friends and non-app friends to invite to the app. Recommendations will help developers recommend various OG objects based on their friends likes and OG activity.

App Review & Reciprocity

Since the launch of Open Graph in Jan. 2012, we have moved toward an app review model where we review and approve an apps integration with Facebook social channels (News Feed, Timeline, etc.). We extended this model to the App Center. With this announcement taking the next step in this evolution. In 90 days, we will begin to review and approve all apps that integrate with Platform. This will ensure that we are maintaining a high-level of app quality and that our user and developer interests are aligned. Developers may continue to develop and test on Facebook Platform as they always have, but before they can take their app "live" to non-developers/testers, their app must be approved and reviewed by Facebook.

As part of this review process, we will examine the quality of the app, but also if the app is in compliance with our policies. In particular, we will determine if the app is following our reciprocity and duplicative functionality policy. All apps may use Platform for Login and Social Plugins, but if the app accesses extended user information such as the friend graph, photos, etc. the app must also make it possible for the user to bring their data from the app back to Facebook. In order to help developers with this requirement, we are releasing tools collective known as Action Importers.

Further, for the small faction of developers who's app may duplicate existing FB functionality, we can make this determination at review time, before the app launches, to ensure that can work together to see if we can come to an equitable resolution.

Canvas Redirect Policy

We have had a long-standing policy prohibiting canvas apps from redirecting outside of FB. As the ecosystem has developed, we have seen more and more web sites create canvas app with the sole goal of gaining access to bookmarks and requests for there web apps outside of FB. In 90 days, will begin to enforce this policy in earnest. Canvas apps that exist that chiefly exist to redirect to external web sites will be disabled. For developers that were relying on this mechanism to gain access to requests, we recommend that they utilize the Send dialog to implement their request/invitation functionality.

Page Apps (optional/for discussion with Mike/Dan)

There are a number of apps that are utilized to manage pages. Previously, an app could ask for the manage_page permission and access the page feed, post to the feed, etc. Moving forward, securing access to this permission and the Page API is limited to specific apps that offer compelling functionality above and beyond what is available on Facebook. For developers building page management apps, they can use this permission for developer/tester owned pages during development, but need to be explicitly approved via our App Review before they can ask any user for this permission or manage pages on their behalf.

Canvas as Game Platform (optional/for discussion with Mike/Dan)

As we have watched the development of the 3rd party ecosystem on Facebook.com, a clear pattern of usage has emerged. Canvas has become the default home for social games and Page tabs have become the default home for brand, contest, etc. apps. Moving forward, we are going to codify this within our product itself. Only new game apps will be able to leverage canvas (existing non-game apps are not effected). Non-games will continue to have access to page tabs.

Platform 3.0 Rules of the Road

As we work towards implementing the decisions that we made last year, which are now known as Platform 3.0, we need a common framework by which we can make decisions about what types of app to give access to Platform. This framework must address three key questions: what are the broad principles of our platform, how do these manifest in our products/policies and how do we communicate this to developers? This document answers these questions, constituting the Platform "rules of the road".

Principles

The fundamental principle that governs Platform usage is a simple concept: reciprocity. Reciprocity involves an equitable value exchange between a 3rd party developer and Facebook. This value exchange involves one of the following from developers: high-quality experiences that FB users can use to tell great stories to their friends and family on FB and/or monetary value in the form of revenue sharing or direct payment. In return, Facebook offers a developers access to our Platform.

When considering the implications of reciprocity it is important to note that a second order principle quickly emerges: competitive access. There are a small number of developers whom no amount of sharing to FB or monetary value can justify giving them access to Platform. These developers do not want to participate in the ecosystem we have created, but rather build their own ecosystem at the expense of our users, other developers and, of course, us. That is something that we will not allow.

Platform Services

In order to outline how the above principles manifest in our products/policies, we need to identify the various parts of Platform. This is required because we have a disjoint set of product and policy constraints that apply to each of these different areas:

App services: these are paid generic services (storage, compute, etc.) that apps may use to build the core foundation of their app. At present, we do not have an offering in this space, but we are close to closing an acquisition that adds these services. As such, in order to be complete and future-proof we will outline the rules associated with these types of services.

Ads services: these are paid promotional services that enable developers to drive awareness and installations of their apps using News Feed and other paid channels. We have always had an advertising business the developers could leverage, but this is increasingly an area of focus for us with the transition to mobile.

Identity services: these are the traditional identity/social services that we have provided to developers since 2007. These services enable developers to build personalized app experiences for people and enable these people to share aspects of those experiences back to Facebook. [todo: payments is here]

Application

The following outlines the application of the above principles to the various kinds of platform services.

Strategic competitors: We maintain a small list of strategic competitors that Mark personally reviewed. Apps produced by the companies on this list are subject to a number of restrictions outlined below. Any usage beyond that specified is not permitted without Mark level sign-off.

Ad services: All developers, save strategic competitors (above), may use our ads services. The reciprocity for these services is clear: money in exchange for new or re-engaged users. In terms of oversight/policy enforcement, we follow the standard ads creative review process.

App services: All developers, save strategic competitors (above), may use our app services. The reciprocity for these services is clear: money in exchange for CPU, data storage and network bandwidth. In terms of oversight/policy enforcement, we will reactive handle any strategic competitors that we discover using these services.

Identity services: this set of services is the subject of much of the rules of the road. This is due to the fact that we have a variety of mechanisms for value exchange.

All developers, **including strategic competitors (above)**, may use the Login and Social Plugin features available within identity services. We permit this because we wish to see our core login service and basic sharing services used by users in any app, creating an equitable relationship with the all, including competitive, developers. To this end, we make these features available to developers with out app review.

The use of identity services, beyond Login and Social Plugins, is subject to app review. We review the apps usage of our APIs to determine if they are adhering to our principles. In particular, we look at the quality of the app's user experience and if there existing some equitable value exchange.

During app review, we determine the quality of the app by using the app and comparing the experience to our quality guidelines [link]. Apps that do not meet our quality bar are rejected.

During app review, we examine the APIs that the app uses in order to determine what the appropriate level of reciprocity. The guideline for this review is "take data, give data". The review tool is built to help with this assessment in that for every read API used by the app, we flag if the app has also implemented Action importers. Using this tool, as well as an examination of the user experience itself; we can determine if the app is reciprocating. If they are not, the app is a "data leach" and will be rejected.

Open Issues

There are a number of different fields like birthday, hometown, etc. that apps can request and there is no way for them to write back anything. We can do a couple of things: create an API to set this info (maybe not a bad idea for identity growth?), limit these data fields to just canvas apps (the value exchange is time on site and maybe payments), pull these fields, something else?

How do we think about the baseline level of value exchange of canvas apps due to time on site? Is that enough to forgo the "take data, give data" mandate for non-payment games/apps?

If you are offering real/world goods for sale on your web site or mobile app, in order to use identity services, you must use Facebook Wallet (Payments 3.0)?

Registration Plugin

Need to talk to the field about not selling FB platform as part of an

ads deal (this is where we are seeing non-games canvas use)

Group Management APIs? Event APIs?

Todo/Notes

Read

Login (uid, name, profile pic, small # of core fields) - anyone can get this. No a priori review.

User Data - requires user_* permissions. Ability to ask for those user_* permissions requires unified review.

Friend List - Requires unified review. If you access the friend list, you must conform with Social Reciprocity, as defined above.

Friend Data - we're removing this (removing friend_* permissions)

Core Facebook Features (News Feed API, Inbox API, Full Search API, etc.) - requires unified review. Generally only available with a business deal, generally limited to Facebook replacement apps.

Write

Share Dialog - anyone can use

Open Graph (defining actions, using the API) - requires unified review

Other Write/Management APIs (events, groups, etc.) - requires unified review. Generally requires a business deal, only available to Facebook replacement apps.

Distribution

Bookmarks - limited to canvas apps + mobile games. Requires unified review.

Requests - limited to canvas apps + mobile games. Requires unified review.

Notifications - limited to canvas apps + mobile games. Requires unified review.

App Center + Search - limited to apps that have gone through unified review.

Messaging (Invitations) - will require unified review. Available to anyone who abides by our rules (does not spam the channel).

Reciprocity language: "Facebook Platform provides an extensive set of APIs that allow users to bring their data with them to your application. If you use any APIs beyond the basic login APIs, then you must also allow users to bring their data from your app back to Facebook by implementing the Action Importer spec."

EXHIBIT 44

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Dan Rose
Sent: Thursday, January 24, 2013 12:21 PM
To: Mike Vernal; Justin Osofsky; Mark Zuckerberg; Kevin Systrom; Douglas Purdy; Dan Rose
Subject: Message summary [id.406139916141381]

Justin Osofsky:

>Twitter launched Vine today which lets you shoot multiple short video segments to make one single, 6-second video. As part of their NUX, you can find friends via FB. Unless anyone raises objections, we will shut down their friends API access today.

>

>We've prepared reactive PR, and I will let Jana know our decision.

Mark Zuckerberg:

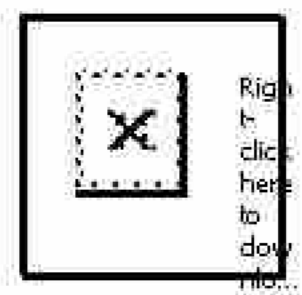
>Yup, go for it.

EXHIBIT 45

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Mike Vernal
Sent: Tuesday, October 30, 2012 11:56 AM
To: Open Graph PMs + EMs
Subject: Re: [Open Graph PMs + EMs] Uploaded 2012_10_26 Platform data model v5.pptx

Mike Vernal [commented on his post in Open Graph PMs + EMs.](#)

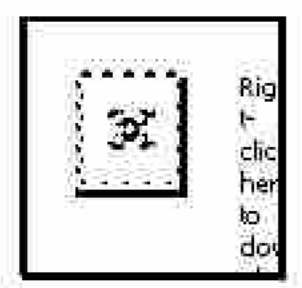


Mike Vernal

11:56am Oct 30

Hi, r ather.

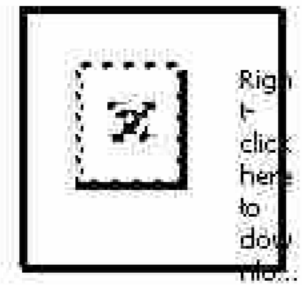
Comment History



Mike Vernal

11:55am Oct 30

In terms of plans / execution - we need to finalize our strategy and then come up with an execution plan. I expect this will take 3-4 months, and will likely consume lots of cycles in H2.

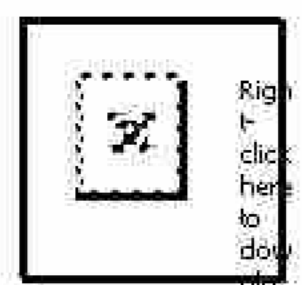


Mike Vernal

11:55am Oct 30

On Data Reciprocity - in practice I think this will be one of those rights that we reserve. We'll publish a spec for an API that you have to implement to integrate with us, we'll have POPS review, but we'll pay closest attention to strategic partners where we want to make sure the value exchange is reciprocal.

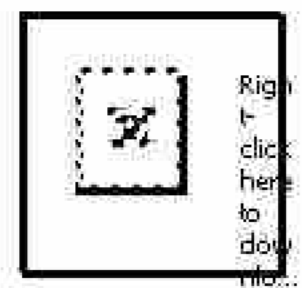
On Invitations Pricing - we need to sort this out.



Vladimir Fedorov

11:37am Oct 30

Are there any dates as far as the change is concerned ? I agree with the direction but there is a ton of details as far as execution goes.



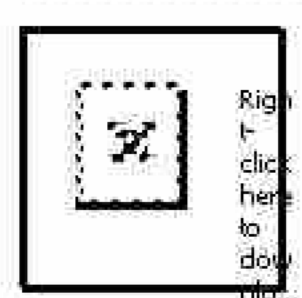
Greg Schechter

10:22am Oct 30

Two initial thoughts/questions:

- seems like #3 (Data Reciprocity) is going to require a new level of subjective evaluation of apps that our platform ops folks will need to step up to -- evaluating whether the reciprocity UI/action importers are sufficiently reciprocal.

- probably already being considered, but the pricing structure of invites to non-TOS'd friends will be very critical to adoption of this. Too high and apps just won't do it and we don't get viral app growth. Too low and we don't solve the problem. And since apps are very different in their LTV calculations of a user, it almost seems like this ideal pricing point is going to vary per app (at least up to a ceiling where we're making enough money that we're happy to cap it for that app). Could get very tricky.



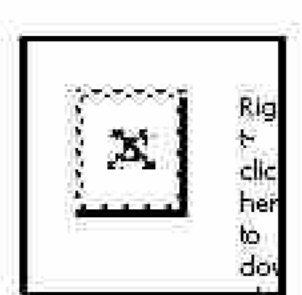
Alex Himel

10:10am Oct 30

Ok, think I'm wrong on the friend connections.

[View All Comments](#)

Original Post



Mike Vernal

9:43am Oct 30

As many of you know, we've been having a series of conversations w/ Mark for months about the Platform Business Model.

To give you an update on where we are -- we feel pretty confident about the business model on the distribution / advertising side. Basically:

- We want everyone to be able to publish back to Facebook / contribute to the graph
- We will organically rank content based on value to users and to Facebook (both engagement and revenue value)
- Developers can pay us to value their value (i.e., they can boost content)

There are lots of details to work out here (we need to update the feed ranking model to have a variable value for clicks, including negative value), but we feel pretty good on this front.

Longer term, I think our distribution business model evolves into the overall OG model I described below.

Most of the open questions have centered on the read side of platform. Specifically - why do we let apps access all this data today? A few possible justifications:

- Because it's a valuable standalone business (the solution we're trying to find)
- Because it's a loss-leader for the distribution business model (a hypothesis we're trying to prove)
- Because it's a social good for the world (we think apps should be social)

On Canvas we didn't have to ask ourselves these hard questions, because getting someone to build an app on canvas accrued a bunch of value. On Mobile, we need to ask ourselves these hard questions. Why let someone like Pinterest or Path read all of our data, create a separate standalone app, and then never use our paid distribution to compensate us?

There have been a few important decisions we've already made (or tentatively made) that I wanted folks to be aware of:

1/ We're going to dramatically reduce the data we expose via the Read API. In particular:

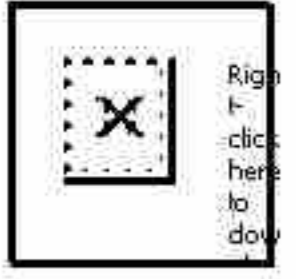
- We are going to change friends.get to only return friends that are also using the app
- We are going to introduce a paid invitations product that let users invite other users to their app
- We are going to remove the ability to grant friend data via GDP. When a user TOSes an app, they can grant access to their own data. Since friends.get will only return other TOSed users' data, that means we no longer need the friend_* permissions.
- We are going to remove/whitelist access to the Stream APIs and Search APIs (and potentially other APIs that might leak the friend graph, like reading all notifications or the inbox)

2/ We are going to limit the ability for competitive networks to use our platform without a formal deal in place.

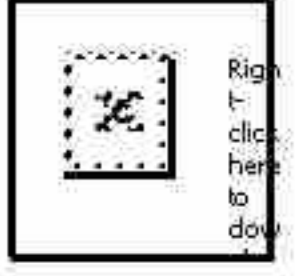
3/ We are going to require that all platform partners agree to data reciprocity. If you access a certain type of data (e.g., music listens), you must allow the user to publish back that same kind of data. Users must be able to easily turn this on both within your own app as well as from Facebook (via action importers).

Sorry for the long note, but wanted to make sure people had context on where the conversations currently are. I think this has a pretty big impact on some of our work around Notifications, Invitations, and Mobile SDKs in particular, so I'm going to follow-up w/ a smaller note to Gareth Davis, Bruce Rogers, Vladimir Fedorov, Charles Jolley, Eddie O'Neil, and Greg Schechter.

Please comment below / lmk if you have questions.



2012_10_26 Platform data model v5.pptx



[View Post on Facebook](#) · [Edit Email Settings](#) · [Reply to this email to add a comment.](#)

EXHIBIT 48

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Sheryl Sandberg
Sent: Monday, November 19, 2012 1:16 PM
To: Mark Zuckerberg; Sam Lessin; Mike Vernal; Douglas Purdy; Javier Olivan; Alex Schultz; Ed Baker; Chris Cox; Mike Schroepfer; Dan Rose; Chris Daniels; David Ebersman; Vladimir Fedorov; Cory Ondrejka; Greg Badros
Subject: RE: Platform Model Thoughts

I think the observation that we are trying to maximize sharing on facebook, not just sharing in the world, is a critical one. I like full reciprocity and this is the heart of why.

From: Mark Zuckerberg
Sent: Monday, November 19, 2012 2:54 AM
To: Sam Lessin; Mike Vernal; Douglas Purdy; Javier Olivan; Alex Schultz; Ed Baker; Chris Cox; Mike Schroepfer; Dan Rose; Chris Daniels; Sheryl Sandberg; David Ebersman; Vladimir Fedorov; Cory Ondrejka; Greg Badros
Subject: Platform Model Thoughts

After thinking about platform business model for a long time, I wanted to send out a note explaining where I'm leaning on this. This isn't final and we'll have a chance to discuss this in person before we decide this for sure, but since this is complex, I wanted to write out my thoughts. This is long, but hopefully helpful.

The quick summary is that I think we should go with full reciprocity and access to app friends for no charge. Full reciprocity means that apps are required to give any user who connects to FB a prominent option to share all of their social content within that service (ie all content that is visible to more than a few people, but excluding 1:1 or small group messages) back to Facebook. In addition to this, in the future, I also think we should develop a premium service for things like instant personalization and coefficient, but that can be separate from this next release of platform. A lot more details and context below.

First, to answer the question of what we should do, the very first question I developed an opinion on was what we should be optimizing for. There's a clear tension between platform ubiquity and charging, so it's important to first fully explore what we're trying to get out of platform.

The answer I came to is that we're trying to enable people to share everything they want, and to do it on Facebook. Sometimes the best way to enable people to share something is to have a developer build a special purpose app or network for that type of content and to make that app social by having Facebook plug into it. However, that may be good for the world but it's not good for us unless people also share back to Facebook and that content increases the value of our network. So ultimately, I think the purpose of platform -- even the read side -- is to increase sharing back into Facebook.

If we do this well, we should be able to unlock much more sharing in the world and on Facebook through a constellation of apps than we could ever build experiences for ourselves. We should be able to solve the audience problem partially by giving people different audiences in different apps and

linking them all together on Facebook. The current state of the world supports that more social apps enables sharing, so the biggest challenge for us is to link them all together.

This makes it somewhat clearer that we want platform to be ubiquitous and to strongly encourage sharing back to Facebook, but it's not yet definitively clear that having full reciprocity and no charge is optimal.

For one thing, it's conceivable that we'd get more net sharing overall and more net sharing into Facebook if we didn't have a reciprocity mandate. This would be true if many developers dropped out over the reciprocity mandate. The reason I don't think they will is that almost no developers will even be giving us the majority of their data since many of their users won't log in with Facebook and many of those who do won't choose to share it back to Facebook. Assuming for a heavily FB-dependent app each of those is 50% participation, then only 25% of the data is shared to Facebook. As long as apps always have a sustainable advantage over Facebook, most will participate. For more sensitive companies like Amazon and Yelp that value their reviews a lot more, way fewer than 50% of their users will connect to Facebook, so this will represent a tiny portion of their reviews and social data. My guess is that they should still rationally want to connect with Facebook at these levels, but if they don't then that probably means they're competitive with us and we're better off not letting them integrate with us anyway. This all makes me think full reciprocity is the way to go.

For charging, the question is whether we could charge and still achieve ubiquity. Theoretically, if we could do that, it would be better to get ubiquity and get paid. My sense is there may be some price we could charge that wouldn't interfere with ubiquity, but this price wouldn't be enough to make us real money. Conversely, we could probably make real money if we were willing to sacrifice ubiquity, but that doesn't seem like the right trade here. After looking at all the numbers for a while, I'm coming around to the perspective that the write side of platform is a much bigger opportunity for us and we should focus the vast majority of our monetization effort on that and not this.

The last question is whether we should include app friends (ie the user's friends who are also using this app). Ultimately, it seems like this data is what developers want most and if we pulled this out of the package then most of the value proposition falls apart. This is especially true if we require full reciprocity without offering our most valuable data.

So that's essentially how I got to thinking we should do full reciprocity with app friends and no charge.

There's some more nuance to this opinion though:

First, in any model, I'm assuming we enforce our policies against competitors much more strongly. The good news about full reciprocity is that for bigger social companies we might otherwise be worried about, if they're enabling their users to push all of their social content back into Facebook then we're probably fine with them. However, for folks like WeChat, we need to enforce a lot sooner.

Second, if we're limiting friends to app friends, we need to make sure we build the appropriate distribution tools that developers want to invite the rest of the user's friends. We keep saying that theoretically this is part of the write side platform and it's a premium feature, and those things may be true, but I think we need to build them and make sure they're ready when we roll this out or else we're just taking away functionality without replacing it with something better. It seems like we need some

way to fast app switch to the FB app to show a dialog on our side that lets you select which of your friends you want to invite to an app. We need to make sure this experience actually is possible to build and make as good as we want, especially on iOS where we're more constrained. We also need to figure out how we're going to charge for it. I want to make sure this is explicitly tied to pulling non-app friends out of friends.get.

Third, there's the data that suggests that if we share app friends only, then most apps will only get fewer than 10 friends from each person. If this is the case, then we may want to consider including coefficient ranking for those app friends for free -- or at least the top 5-10 app friends. This doesn't seem like much leakage and could encourage more people to use our tools by differentiation our product further from anything else that's out there.

Fourth, for products like Ansible and Newsstand, it will be very important to enable people to import their feeds of content from other apps into Facebook. That is, we'd be pulling those people's friends' data from those apps -- eg your friends' pins on Pinterest to make a Pinterest section for you in Newsstand or include the pin images on your Ansible lock/home. Since this is going to be an important upcoming push, we need to consider whether it's still the right thing to remove our own stream.get API if we're requiring full reciprocity. I still want to remove it, but if the spirit is full reciprocity, it may just be difficult to refuse access to the app that are pushing streams into us. The good news is that those services aren't the ones we're typically worried about, so we'd still get to prevent almost all troublesome apps from having it. The bad news is this would prevent us from really deprecating this. I haven't thought through this fully and need to think about it some more.

Fifth, not charging still means people will overuse and abuse our APIs and waste money for us, so I still think we should implement some kind of program where you have to pay if you use too many of our resources. That said, the goal of this won't be to charge for actual usage so we can build a less precise system of for monitoring than the full accounting systems we would have had to have built for the other system we discussed. What I'm assuming we'll do here is have a few basic thresholds of API usage and once you pass a threshold you either need to pay us some fixed amount to get to the next threshold or you get rate limited at the lower threshold. One basic implementation of this could be to have a few different fees for developers, with basic starting at \$100 and then having levels at \$10k, \$1m, \$10m, etc. This should be relatively simple, achieve the goal of controlling costs and make us some money if we want.

Finally, I want to discuss the premium read services for a bit.

One of the big ideas I took away from our discussions was Ed Baker's framing that every business wants growth, engagement and monetization. I like this framing because it explains what the read side of platform is -- it increases engagement, or more specifically, it takes a user and turns them into a more engaged user through adding real identity and social connections to them. This is real value and it's different from anything else we do. We have ads and some organic distribution for driving growth, the read side of platform for driving engagement and the ad network and payments for driving monetization. We'll offer the full stack of services.

How our premium read services add value is pretty clear -- through simply eliminating friction. Our free services let you get basic info, app friends and let you pay to get access to a dialog to invite more friends. Developers can always get these critical flows to perform better if they have more of the data

and more control though. Through instant personalization, they can encourage a person to sign in more effectively and will therefore convert more unregistered users to ones with real identity and friends. Through coefficient and full friends list, they can upsell a person to invite their friends much more effectively throughout their app as well. I'd estimate that these two things alone would increase conversion by ~20-30% for developers. That means they should be willing to pay us roughly 20-30% of the value of each user who signs up. That's a big deal because engagement is very valuable.

I have a specific proposal for how to get started with this and it's that we should work with mobile games. The feedback we're getting from almost every other type of developer is they don't know how to value our services or really much of their engagement at all. But game developers generally track this and have a better sense. They would certainly be willing to try it out in new games and they'd be able to figure out how well it worked. Once it works for most game developers, then we can start letting other developers in as well.

Working with game developers has a few other nice properties. It means doing something nice for our game developers first and making them feel valued. It's fairly natural to offer IP on mobile since we already offer it to them on canvas. This could also be an important part of helping us transition our canvas business onto mobile if it effectively lets us take a 20-30% cut of the value of FB-connected users.

On pricing, there are a couple of ways I could see this working. First, we could charge based on the value our ads auction computes for each user. I'm still fairly confident that's the most efficient way to charge if we can't just take a straight rev share. That said, the second choice, since this is just games, is to actually figure out how to just take a straight revenue share. This might be possible in conjunction with some sort of publisher model for games that I know the team is already thinking about.

This all said, while I'd love to build this premium engagement model as quickly as possible, there's definitely more low hanging fruit on the growth/distribution side that almost all developers will be able to use if we build out correctly. So we should probably prioritize that before premium engagement.

We also need to first prioritize all the tools required to make these policies work, including making it so developers can actually share everything social in their apps back to Facebook if we're requiring them to offer that option, the premium invite channel that will replace access to non-app friends, etc.

Overall, I feel good about this direction. The purpose of platform is to tie the universe of all the social apps together so we can enable a lot more sharing and still remain the central social hub. I think this finds the right balance between ubiquity, reciprocity and profit.

Again, this isn't final but I wanted to let you all know where I'm leaning. I'm looking forward to discussing when I'm back after Thanksgiving.

EXHIBIT 69

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

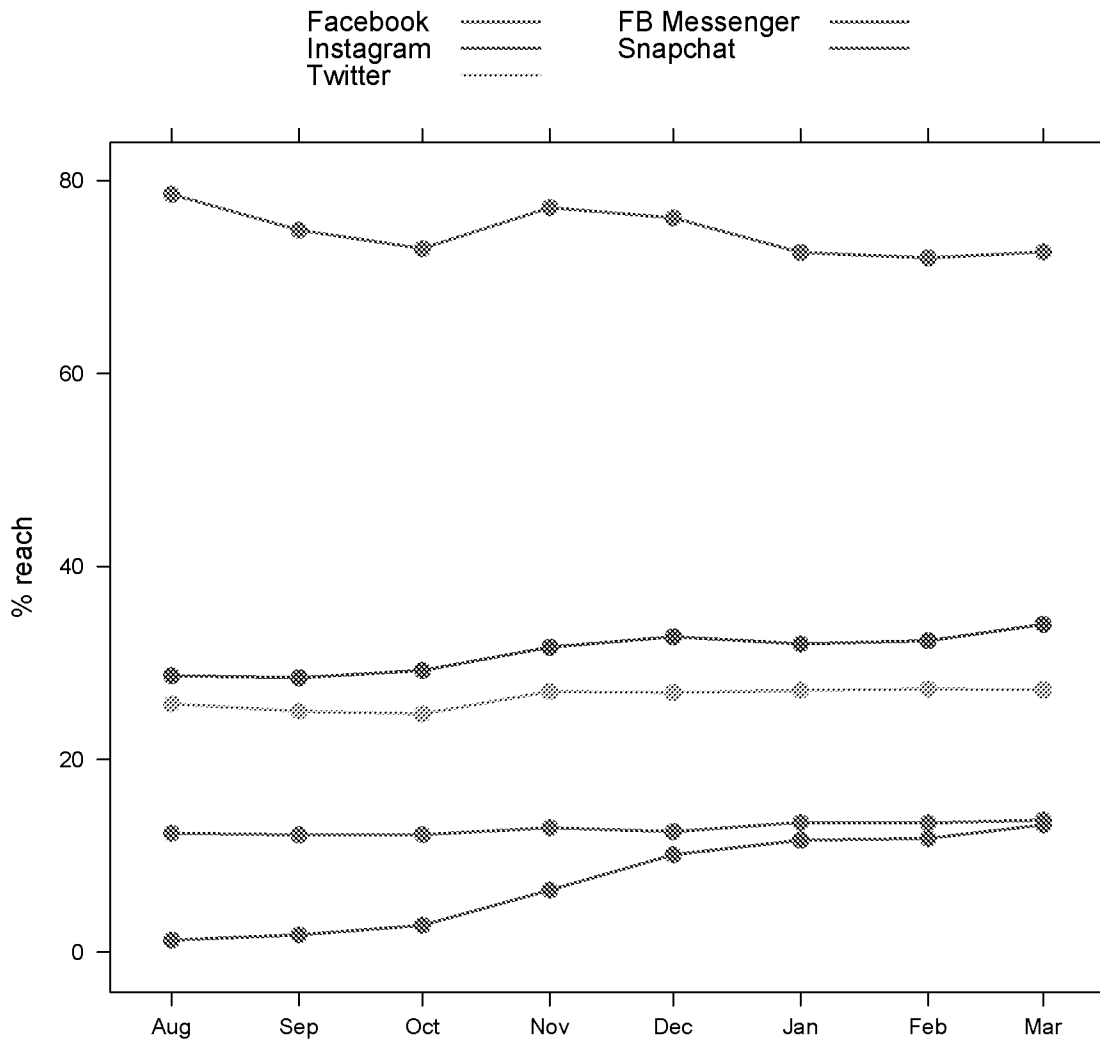
facebook

Industry update

April 26, 2013

US mobile apps (iPhone)

US iPhone App Reach, Aug 2012 - Mar 2013 (source: Onavo)

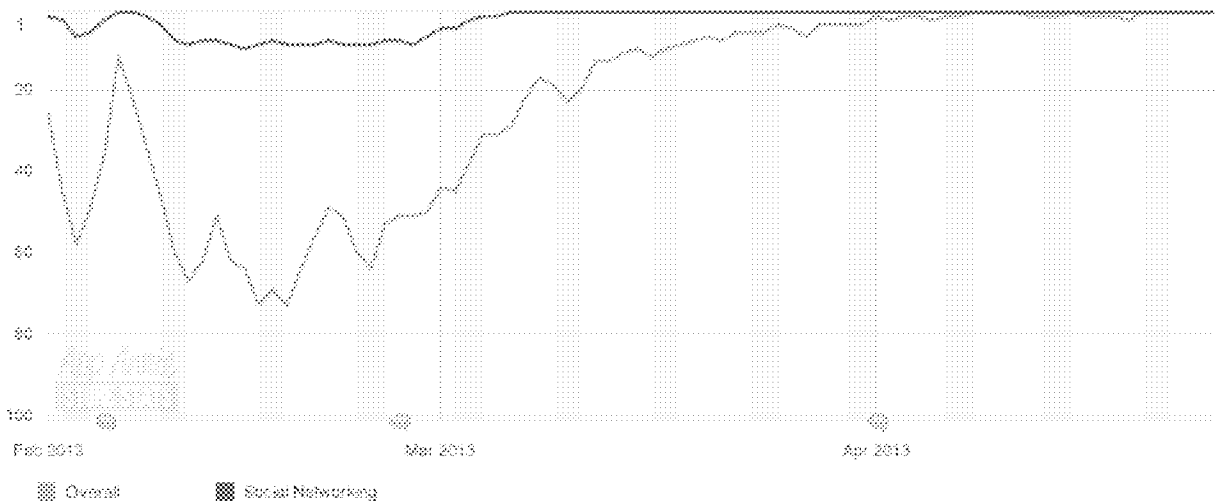


	<u>% Reach,</u> <u>Mar.</u>		<u>Rank</u>	
Facebook	72.6% +0.6	1	---	
Instagram	34.0% +1.7	3	---	
Twitter	27.2% +0.1	6	---	
FB Msgr	13.7% +0.2	15	---	
Snapchat	13.2% +1.6	16	+4	
Pinterest	11.3% +0.2	20	+1	
WhatsApp	8.6% +0.3	30	---	
Tumblr	5.9% +0.4	43	+3	
foursquare	5.0% +0.2	57	+1	
Vine	3.9% +1.2	71	+25	
Google+	2.9% -0.2	97	-4	
Path	1.0% +0.1	243	+22	

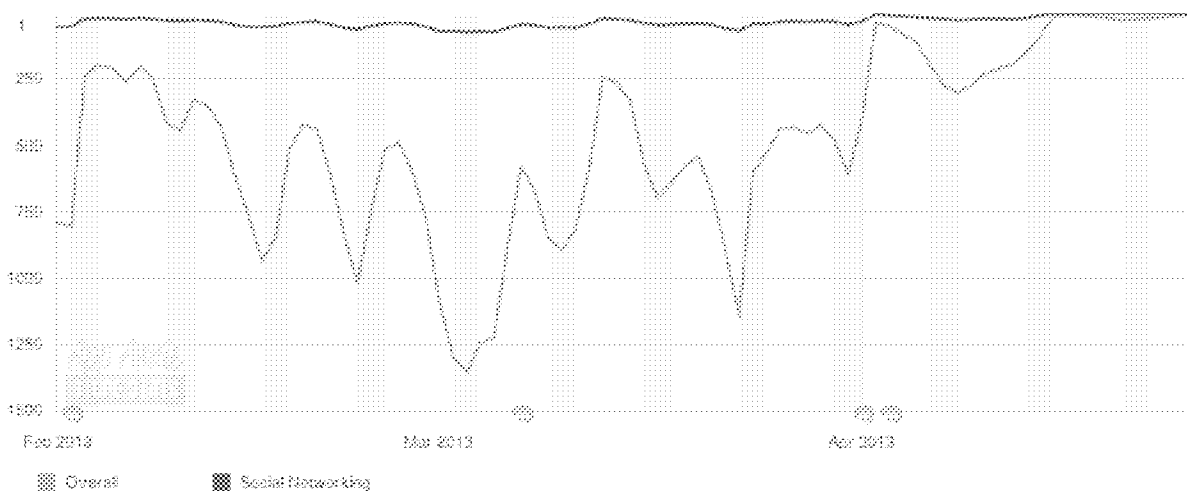
source: Onavo

US emerging mobile apps

 **Vine: #1 overall / #1 social networking in US iTunes store**



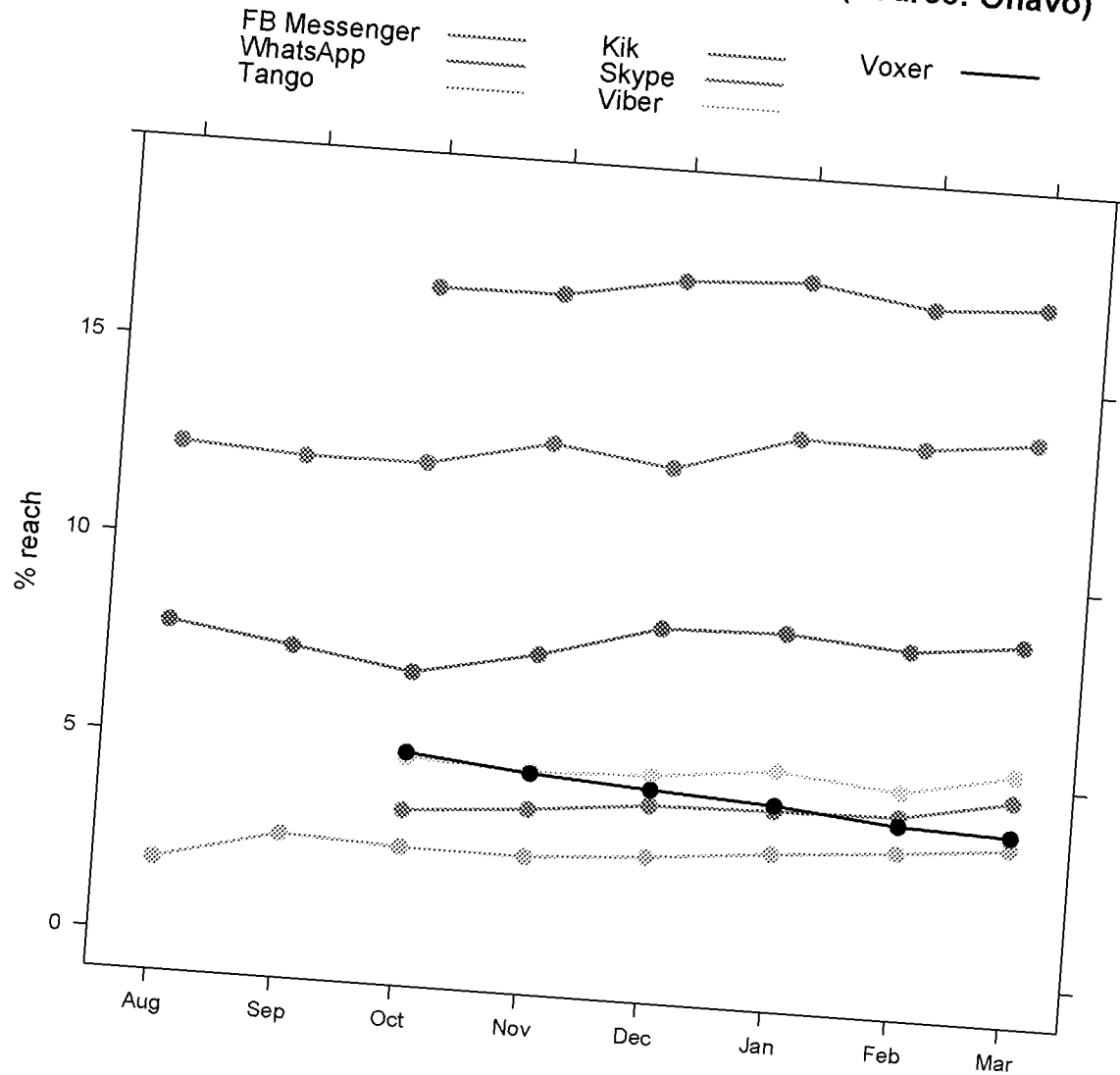
 **Path: #9 overall / #2 social networking in US iTunes store**



source: AppAnnie

US mobile messenger apps (iPhone)

US iPhone App Reach, Aug 2012 - Mar 2013 (source: Onavo)



March % Reach

Skype	17.1%
FB Messenger	13.7%
WhatsApp	8.6%
Viber	5.3%
Kik	4.7%
Voxer	3.8%
Tango	3.5%
GroupMe	2.4%
Line	1.4%
KakaoTalk	1.2%
MessageMe	0.5%

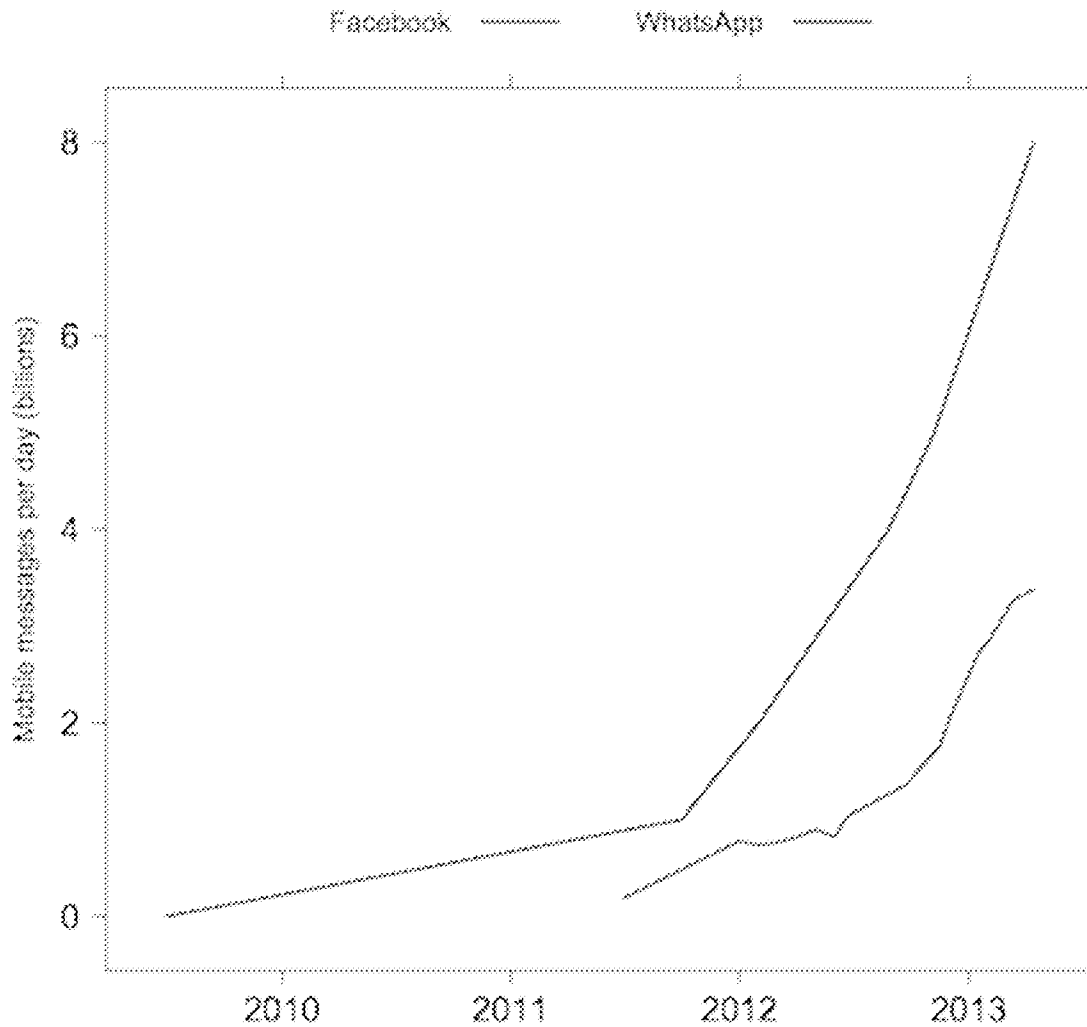
HIGHLY CONFIDENTIAL

source: Onavo; *Nielsen

FB-01367815

WhatsApp message sends

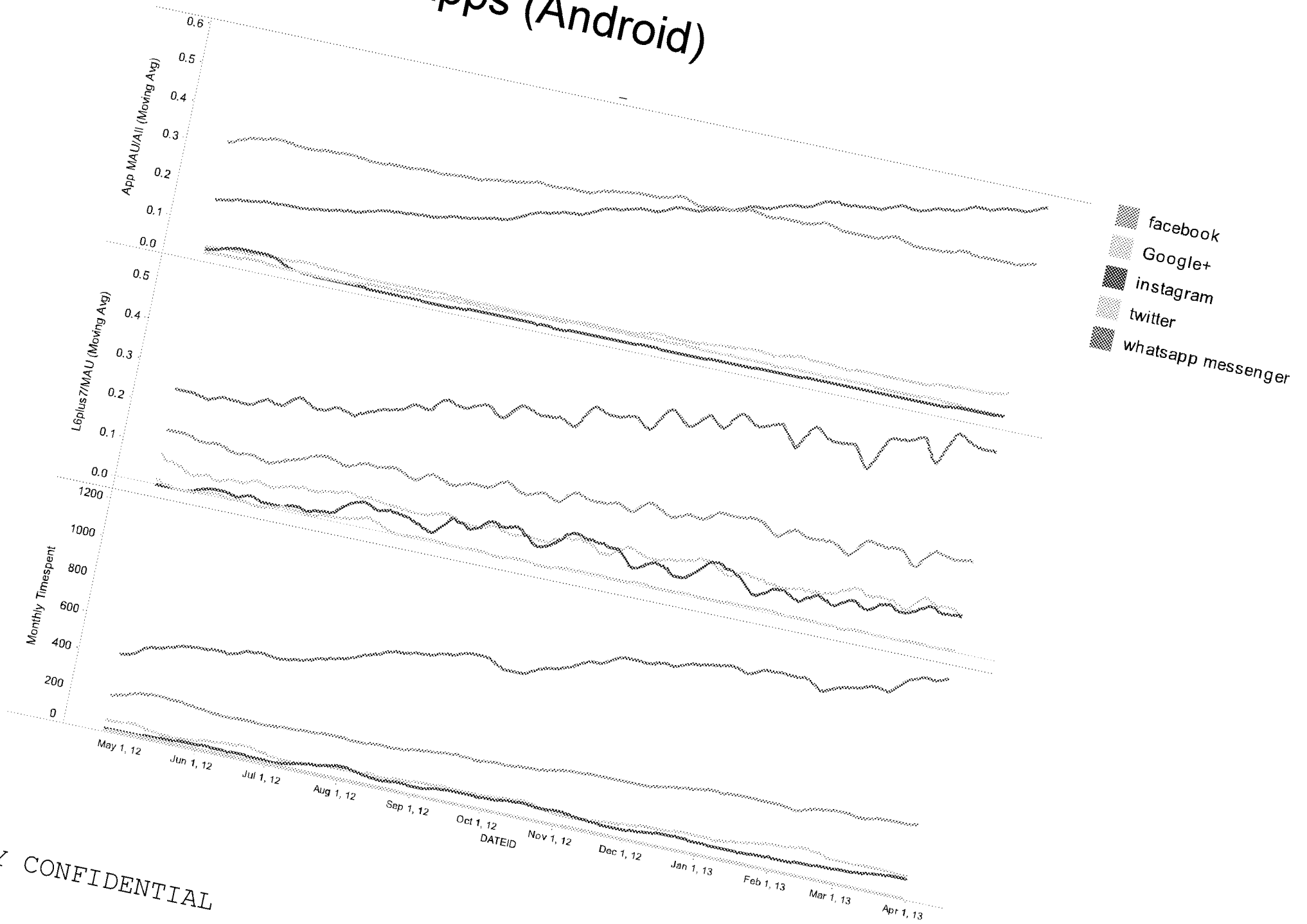
Mobile messages per day by service



Message sends/day

WhatsApp	8.2 billion
Facebook (mobile)	3.5 billion
Facebook (mobile + web)	11.5 billion

India mobile apps (Android)



HIGHLY CONFIDENTIAL

FB-01367817

Dashboards

Web industry data with user actions:

<https://our.intern.facebook.com/intern/data/portal/gem/industry/overview>

Mobile ad-network data: <https://clients.onavo.com> (email for login)

EXHIBIT 70

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

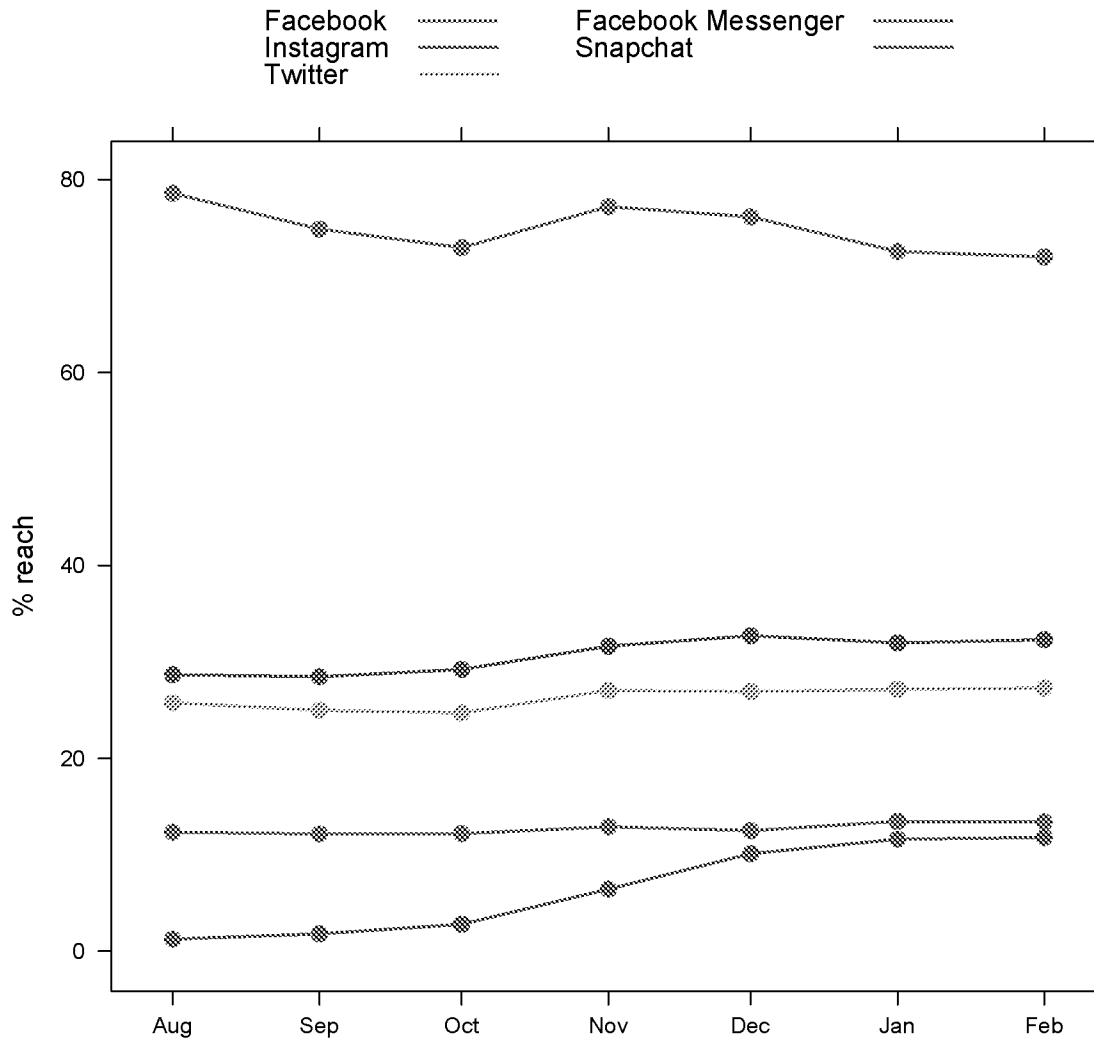
facebook

Industry update

March 15, 2013

US mobile apps (iPhone only)

US iPhone App Reach, Aug 2012 - Feb 2013 (source: Onavo)

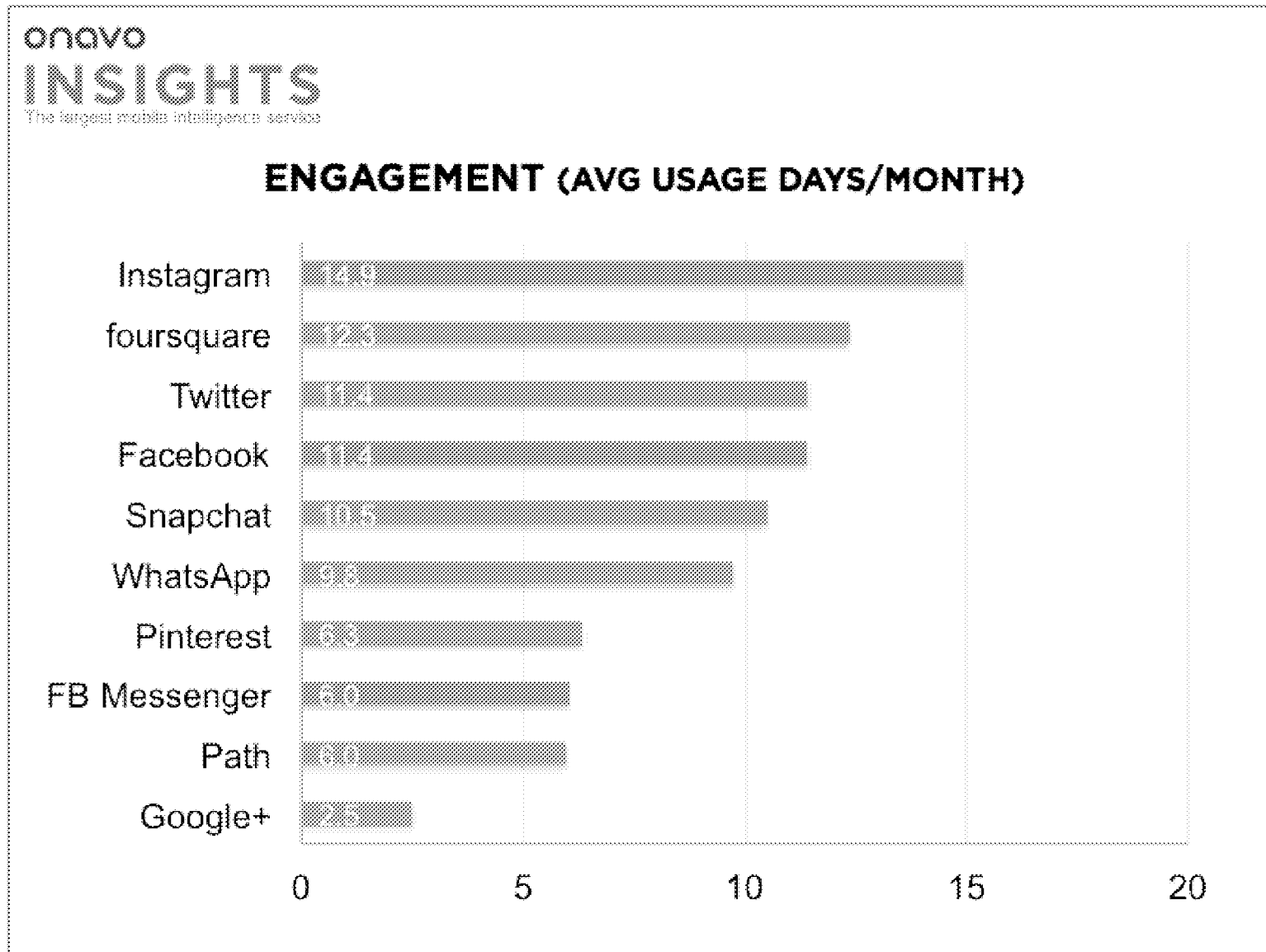


February % Reach

Facebook	72.0%	(-0.5 pts)
Instagram	32.3%	(+0.3 pts)
Twitter	27.1%	(+0.1 pts)
FB Messenger	13.5%	(-0.1 pts)
Snapchat	11.6%	(+0.2 pts)
Pinterest	10.6%	(+0.1 pts)
WhatsApp	8.3%	(+0.0 pts)
foursquare	4.8%	(-0.0 pts)
Google+	3.1%	(N/A)
Vine	2.7%	(N/A)

source: Onavo

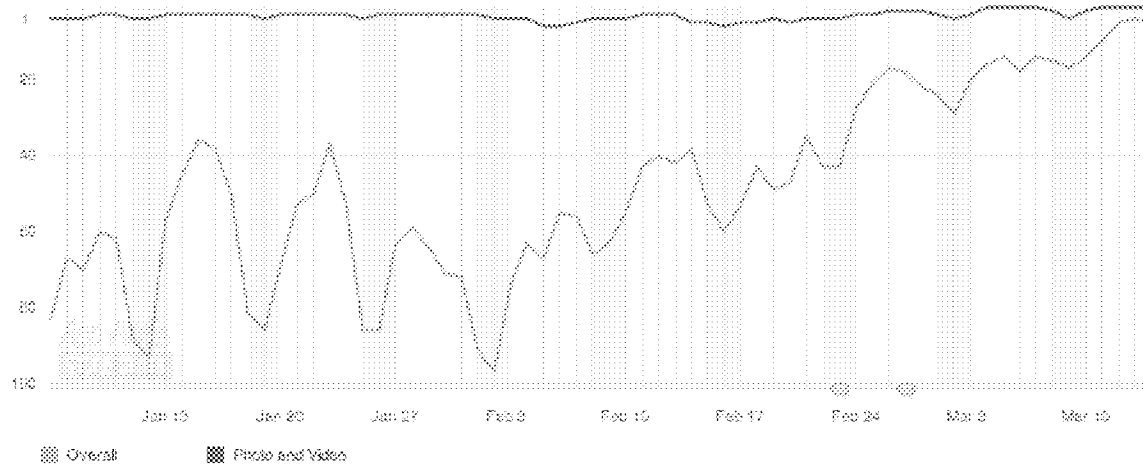
US mobile apps (iPhone only)



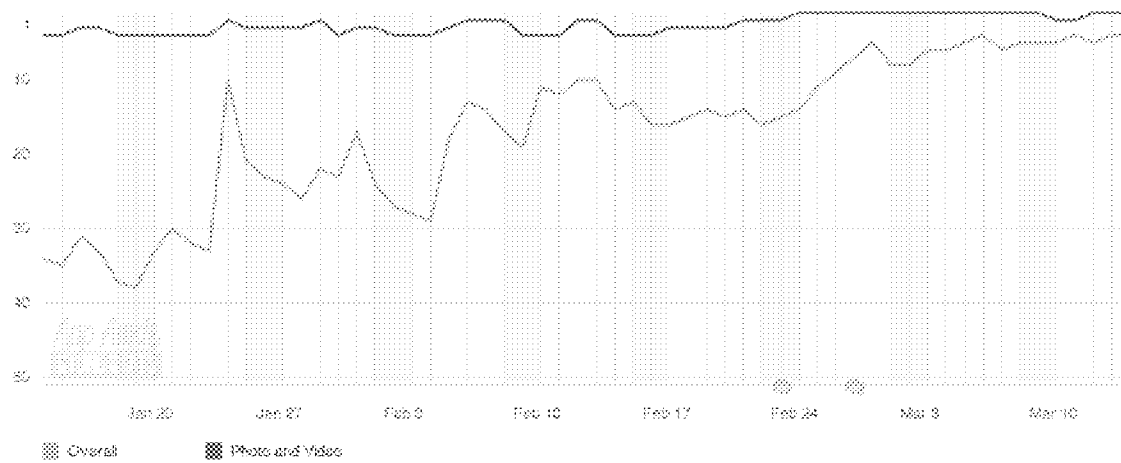
source: Onavo

Snapchat app-store ranks

United Kingdom: #1 Photo/Video; #5 Overall



New Zealand: #1 Photo/Video; #5 Overall



source: AppAnnie

Global web data dashboard

<https://our.intern.facebook.com/intern/data/portal/gem/industry/overview>

EXHIBIT 78

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

Login v4 (+ Platform changes)

Update: 1/27/2014

Speaker Notes for Slide 1

[theme] User Trust

- 1/ Login v4 [permission x-out]
- 2/ Login review

[theme] Developers

- 1/ Versioned APIs
- 2/ Commit to 2yr stability for core Login, Sharing, Payments, Ads APIs and SDKs [iOS, Android, JS, PHP]
- 3/ Bug fix SLA [UBN, hi-pri]
- 4/ Sticks
 - = remove friend data APIs
 - = remove APIs for News Feed, Timeline, Notifications, Inbox, managing Friend Lists
 - = opaque user IDs for all apps
 - = non-app friends only available by approval
- 5/ Carrots
 - = Social Context API [e.g. facepile - answers questions like "which friends are connected to Batman via which edge types?"]
- 6/ API deprecations [mostly dead products]
 - = Checkins
 - = Locations
 - = Pokes
 - = Subscribers / Subscribedto
 - = Ouesstions
 - = Instant Personalization
 - = Start Now
- 7/ API calls w/o access tokens [going to try this, might not be possible]

8/ for games on canvas that use credits

- 8.1/ Invites API [for custom MFS]
- 8.2/ Access to all friends for cross app promotion

9/ Other

- 9.1/ Pivot the developer docs around Facebook Sharing as a product [sounds like this launched Tuesday]

Goals

1. Increase User Trust

1. Give people control of info they share [permission x-out]
2. Increase quality of FB integrations in apps [Login Review]
3. Minimize surprise [policy + friends model changes]

2. Increase Developer Trust

1. Versioned APIs
2. Stabilize core APIs [2 year stability per Platform version + bug fix SLA]

3. Protect the Graph

1. Make it difficult to connect graphs between apps [opaque IDs]
2. Limit data available to apps [remove friend APIs, privatize high-value APIs]

API Privatizations

- Available via whitelist / contract
 - News Feed
 - Timeline
 - Inbox / messaging
 - Notifications
 - Requests
 - Friend List management

API Deprecations

- Access to friend data [likes, photos, checkins, etc]
- Questions, Subscriptions, Checkins, Pokes
- Apps reading public posts for TOS'ed users

Affected Apps

	Total	> 1,000 MAU	> 10,000 MAU
API callers [last 30d]	1.4M	17K	3,206
Affected apps	27,019	7,744	2,532
Affected games	3,111	1,475	521
Affected Credits apps	338	315	253
Affected Ad Spenders	89	82	60
Affected Salesforce apps	1,639	1,262	812
Affected Salesforce games	458	375	253
Affected Salesforce non-games	1,181	887	559

Speaker Notes for Slide 5

<https://our.intern.facebook.com/intern/argus/view/193070>

Key apps

	# of apps	% requesting read_stream
Mark's friends	31	76%
Sheryl's friends	66	62%
Generating TPV	332	51%
Neko spenders	831	59%
Noisy	23	82%
T0 / T1 partners	160	77%

All on a list for pre-launch outreach

Model changes: highlights

1. App scoped user IDs

- Each partner has a unique ID space for users
- Makes on-trivial to connect graphs across apps
- Makes it possible to audit data leaks

2. By default, apps can only read app friends

- Common case for most apps
- More difficult to grow Lulu, Circle, Klout, BranchOut, etc.

Speaker Notes for Slide 7

Example: A TOS's w/ all friends, B TOS's w/o friends. if app doesn't know NAF, /A/friends didn't already include B

Affected Apps

1. Difficult / impossible to build [without contract]
 - Alternate FB clients [Flipboard]
2. Hard to grow
 - Messaging apps, contact sync apps, horoscope apps, birthday notifiers, gifting apps [ex: Wrapp]
 - Lulu, Klout, BranchOut
3. Good apps
 - Venmo

Speaker Notes for Slide 8

Wrapp: <http://crunchbase.com/company/wrapp>

Impact

1. Canvas Games that use Credits:
 1. Adopt app scoped IDs
 2. Adopt new model for cross-app promotion
 3. Adopt new model for custom MFS
 4. Loss of ranking signals for friends

Impact

2. Non-game apps / non-Canvas games

1. Lose access to non-app friends

2. Adopt app scoped IDs

3. [harder to build] FB replacement clients [e.g. Flipboard]

4. [harder to grow] Lulu, BranchOut, Klout, messaging / contact sync / gifting / horoscope / birthday notification apps

5. Casualties: Venmo, etc.

Speaker Notes for Slide 10

Wrapp: <http://crunchbase.com/company/wrapps>

Login v4



- First screen
- “App can’t post” text
- Second screen
- People have line item veto on permissions [except public profile]

Launch Timing

- ~March 12: launch Login v4
- April 30: developer event [f8?]
- Want 6-8 week separation between events

Questions

1. Acceptable to deprecate Feed given broad impact?
2. How quickly should apps lose access to Feed?
3. Acceptable to make medium-term trade of Trust for Games?
4. Commit to never removing basic Login from an app?

Appendix

Canvas Games using Credits

1. Goal: minimize impact to Canvas games
2. App-scoped IDs for new users
3. Access to all friends for custom MFS [invites]
4. Data
 1. ~900 financial entities [80% associated w/ multiple apps]
 2. ~2,300 active payment enabled apps [last 7d]

Speaker Notes for Slide 15

Changes from Vernal:

1/ use a Social Context API for cross app promotion

2/

Non-game apps / non-Canvas games

1. App scoped IDs for new users
2. Apps limited to reading app friends
3. Review
 1. [low bar] Access to API for tagging people
 2. [very high bar] Access to non-app friends
 1. Venmo: yes
 2. Lulu, Circle, BranchOut: no

Speaker Notes for Slide 16

Investigate a functional Invites product

Developer Trust

1. API versions [GET /v2.0/me/likes]
2. Bug fix SLA

UBN	24h
Hi-pri	10d
Mid-pri	30d

2. Won't publish TATs
3. Near term, likely won't meet mid-pri SLAs

Bug backlogs

Team	10/20/2013	1/5/2014	Growth	% in SLA
Ads	80	89	+11%	?
API	170	218	+28%	?
Devsite Content	33	51	+55%	?
DevX	38	56	+47%	?
Mobile Platform	50	49	-2%	?
Platform UI	106	152	+43%	?

Speaker Notes for Slide 18

<https://tableau.thefacebook.com/views/EngSLA/SLABacklog>

<https://tableau.thefacebook.com/views/EngSLA/Dash>

Core APIs

User Fields	APIs	Other
id	GET /permissions	iOS / Android / JS SDKs
name	POST /feed	PHP SDK
first_name	POST /photos	Login
last_name	POST /videos	Payments
picture		Like Button
gender		Ads
locale		
age_range		
link		
timezone		
currency		
birthday		
email		
location (current city)		

Login Review

1. Heavyweight review for high-value data [ex: photos]
2. Lightweight review for fields on user object [ex: current city]

3. Volume

1. 110,000 apps need to go through Login review w/in 6mo
2. 1,800 new apps / day need review
3. Currently review ~200 apps / day for OG / AC

4. TAT

Managed Partners	< 24h
Good apps	< 48h
Others	3-5 days

5. Tiering by classifier key to handling volume

App usage of friends

App	Use Case	Issue w/ friends usage
TripAdvisor	Show friend or fof reviews / star ratings	Uses FOF
Nike+	Compete with friends / friends leaderboard	
Spotify / Rdio / Stitcher	See friend listening activity	
Sosh	See friend places / activities / bookmarks	Friend permissions
Foursquare / Songkick	Tag friends when publishing an OG story	
Foursquare / Shazam / Deezer / Spotify / Mixcloud / EyeEm	Find friends and subscribe to their activity feed	
Wrapp	Buy a friend a gift on their birthday	Uses non-app friends
Tinder / HotOrNot	Show mutual friends given a profile	
Vamos	Event suggestions based on events popular among your friends	Friend permissions
Kickstarter	Find + fund projects that friends are funding	
Bandisintown	Concert recommendations based on friends. Find friends you can go to shows with.	
Strava	Compete with friends. Show support for friends' workouts.	
Waze	See friends driving. Compete against friends for status.	
Instagram	Find + follow friends	
Delectable	Tagging friends	
Venmo	Send / receive money with friends	Uses non-app friends
In general	Tagging non-app friends	

User of high-value perms

Permissions to privatize [won't be publicly available]	Total # of apps requesting these permissions / day [%games, %partners, %PMDs]	# of apps requesting perm from > 1,000 users / day [%games, %partners, %PMDs]	Unique user+app pair perm impressions / day
	41,191 (54%, 1%, 0.4%)	384 (33%, 15%, 4%)	4,974,471
friends_*	13,350 (14%, 3%, 0.9%)	482 (29%, 20%, 4%)	7,013,87
read_mailbox	1987 (25%, 3%, 0.6%)	246 (52%, 7%, 4%)	1,495,538
read_requests	951 (11%, 5%, 1.2%)	87 (72%, 12%, 2.3%)	497407
read_friendlists	6304 (12%, 2%, 0.5%)	179 (50%, 11%, 1%)	1,344,731
manage_notifications	983 (16%, 6%, 1%)	93 (73%, 8.6%, 1%)	442,259
manage_friendlists	661 (15.5%, 4.5%, 0.6%)	66 (90%, 4.5%, 0%)	249,425
create_event	1,411 (8%, 3.4%, 1.4%)	70 (86%, 4.3%, 0%)	262,122

Data returned for NAF

Redacted – Source Code

APIs returning friends

	Use Case	ID Space	API	Can be cached	# of apps	Notes
1	Login [no friends]	A	N/A	Y	10 ⁶	In the limit, we want all apps using Login
2	Login w/ friends [app friends + NAF]	A	/me/friends	Y	App Friends: 10 ⁵ NAF: 10 ²	Currently used for cross app promotion
3	Tagging	B	/me/taggable_friends	N	10 ⁴	Requires approval
4	Social Context	B	/me/social_connections	N	10 ⁴	
5	Invites	A	/me/inviteable_friends	Y	10 ³	Response sorted by likelihood of conversion Available only to Canvas games that use Credits

Social Context API

- GET `/{id}/social_connections`
- Callable if TOS'ed user grants `user_friends`
- Returns detailed data for AF. Summary data for NAF.
- May end up with legal / policy requirement to disclose access to this data :\

Example: Social Context API

```
GET https://graph.facebook.com/ironman/social_connections?  
fields=name,action_type,friends.summary(1)&  
access_token={user-token}
```

Redacted – Source Code

`/ {user-id}` supports
mutual friends today

Issues

1. Complexity of migrating to opaque IDs
2. Perception of omitting NAF from /me/friends
3. Game adoption of Login v4
4. Semantics of x'ing out user_friends
5. Does not address Page API data leaks [major issue]
6. Login v4 support for web / Canvas
7. Documentation

New Constraints

1. [policies] Login
 1. No infinite loops
 2. Additional password only if required, must be explained
 3. Cannot re-prompt for data available through FB using empty form
2. [policies] user_friends
 1. If apps can access NAF: for users that x-out friend permissions, apps cannot use data from FB to bootstrap social connections between users
3. [pTOS] Once apps can read X% of the graph, they must talk to us. Akin to the MAU cap.
4. Contract required to read NAF

Login v4

1. Model for x'ing out user_friends

1. Two choices

[assume A TOS's w/ friends. B TOS's w/o friends.]

1. If apps get app friends: B is never in A's friend list
2. If apps get all friends: B is in A's friend list. Policy prevents apps from auto-wiring $A \Leftrightarrow B$ [ex: auto-follow, TOS notifs]

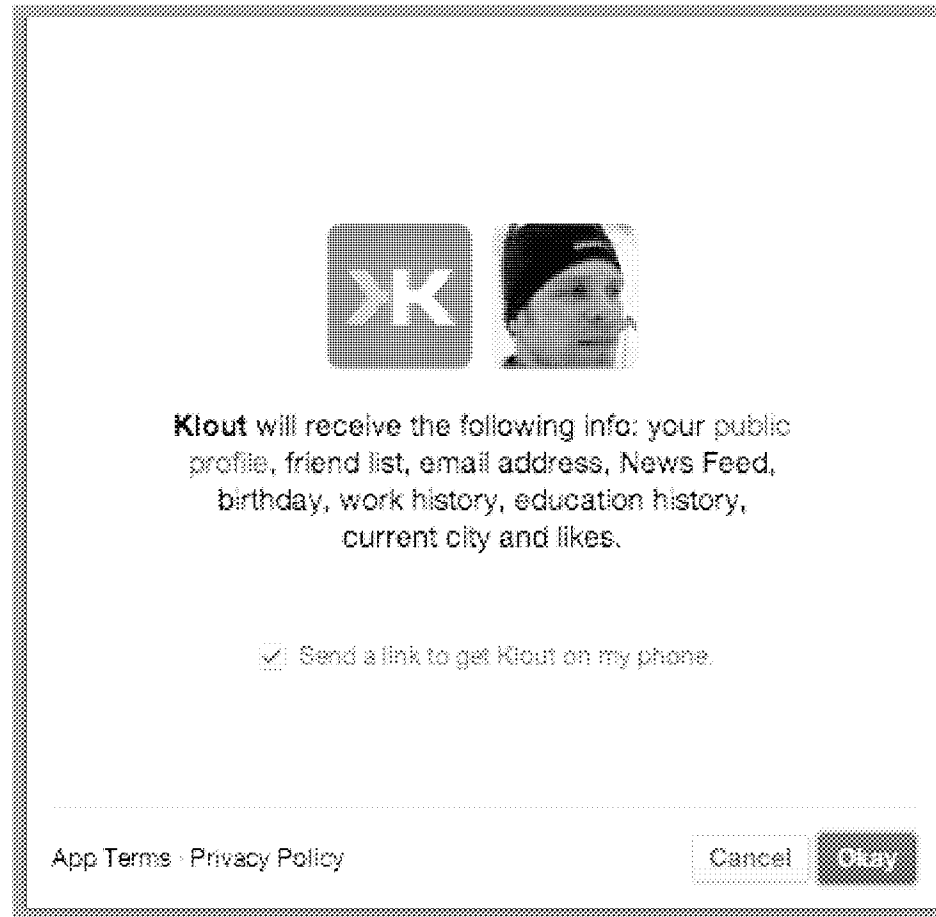
2. Users who revoke can be found in app's search + followed

3. Users who revoke cannot send Requests via Custom MFS

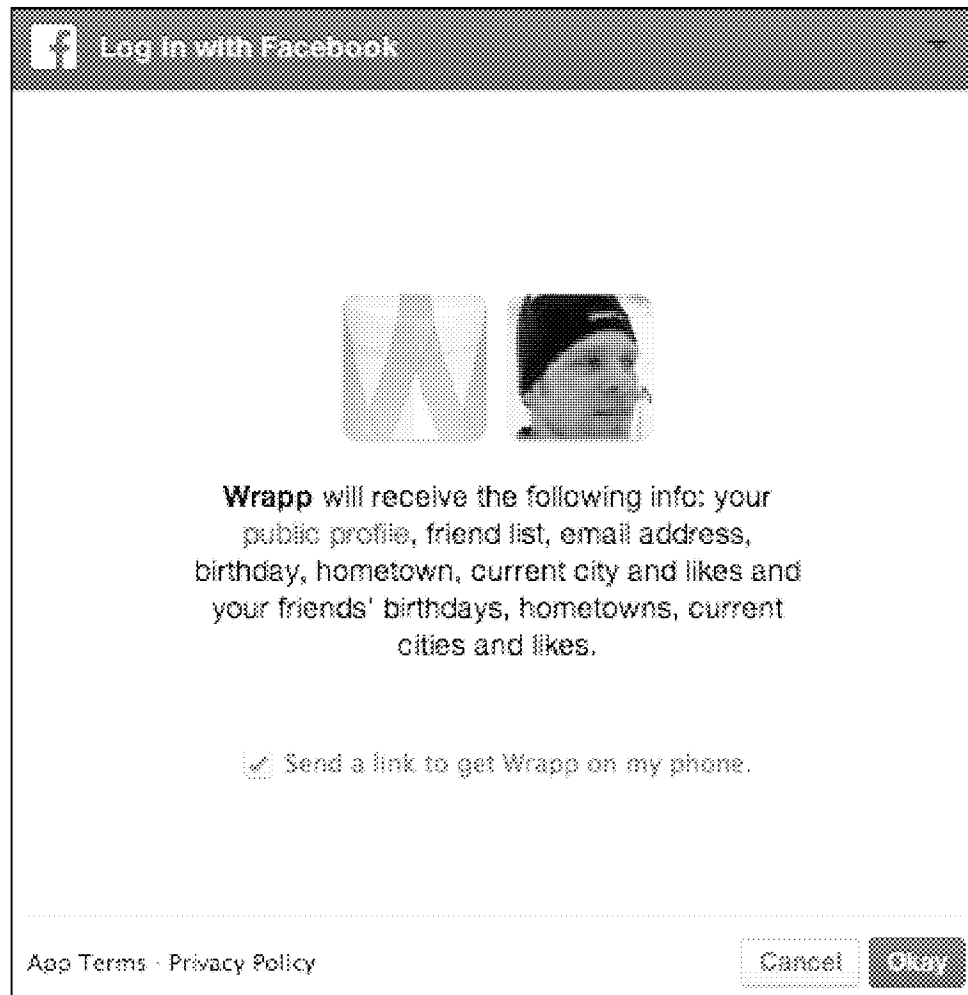
4. For A: B.installed = true

5. iOS Login Dialog disabled for v4+

Klout Login Dialog



Wrapp Login Dialog



Launch Timing

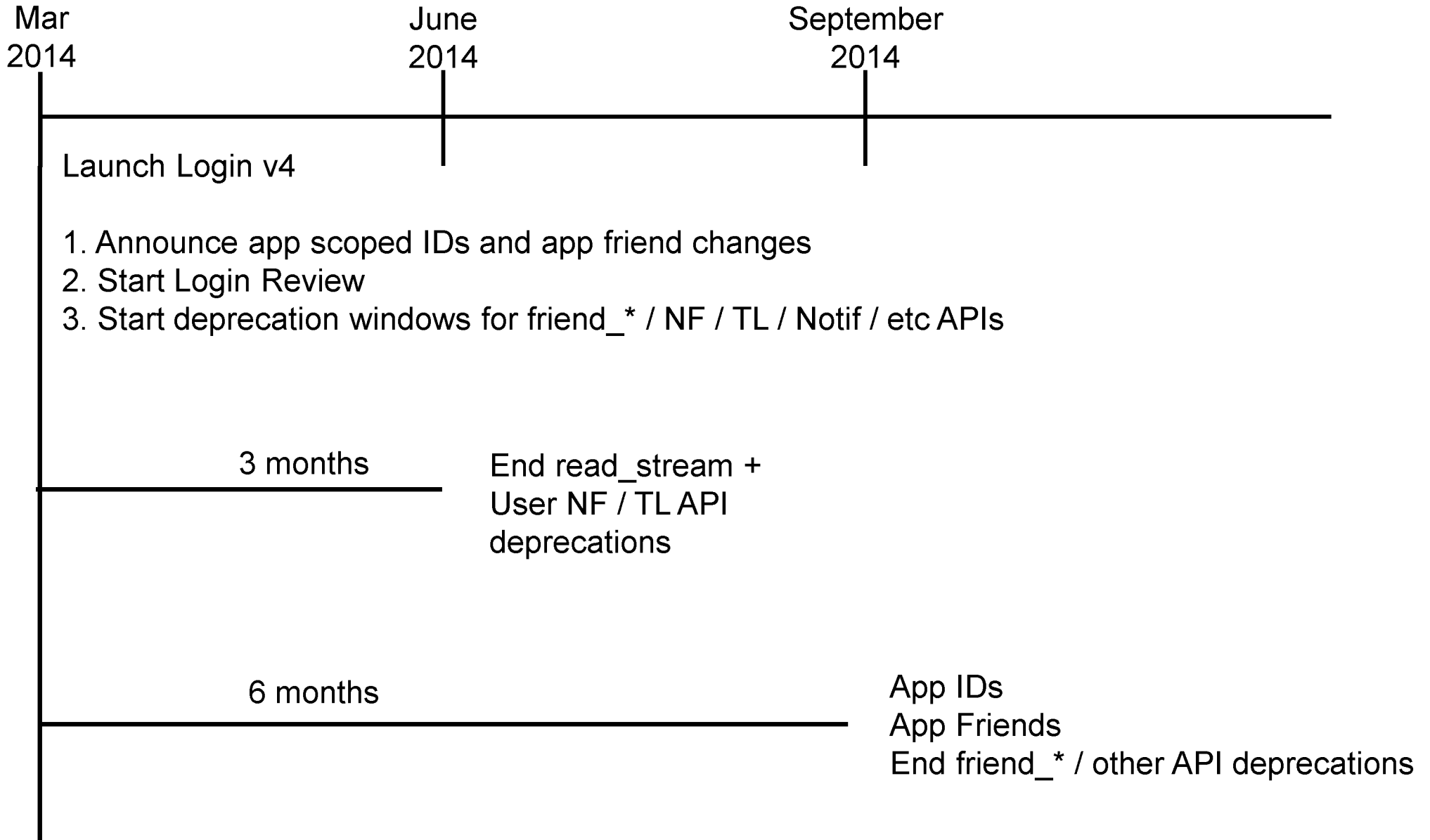


EXHIBIT 79

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Konstantinos Papamiltiadis

Sent: Monday, September 23, 2013 7:24 AM
To: Ime Archibong
Subject: Re: What do you think?

v0.6

From: Ime Archibong
Date: Friday, September 20, 2013 8:23 PM
To: Konstantinos Papamiltiadis
Subject: Re: What do you think?

Some comments in the doc

From: Konstantinos Papamiltiadis
Date: Friday, September 20, 2013 9:58 AM
To: Ime Archibong
Subject: Re: What do you think?

v0.4 with summaries

From: Ime Archibong
Date: Friday, September 20, 2013 5:03 PM
To: Konstantinos Papamiltiadis
Subject: Re: What do you think?

That makes sense. Add 1-2 bullets for each. It's got to be concise language though. Take a cut at that.

From: Konstantinos Papamiltiadis
Date: Friday, September 20, 2013 8:59 AM
To: Ime Archibong
Subject: Re: What do you think?

Good feedback, do you think I should add some "context" related to those apps below the screenshots? Maybe a brief explanation of what they do?

From: Ime Archibong
Date: Friday, September 20, 2013 4:43 PM
To: Konstantinos Papamiltiadis
Subject: Re: What do you think?

Good rev. Its getting stronger. I've made a couple high level recommendations in here. Take another cut at it and then we'll do the detail/messaging polish.

From: Konstantinos Papamiltiadis
Date: Friday, September 20, 2013 8:21 AM
To: Ime Archibong
Subject: Re: What do you think?

Of course, I forgot we have this issue... attached as .ppt

From: Ime Archibong
Date: Friday, September 20, 2013 4:15 PM
To: Konstantinos Papamiltiadis
Subject: Re: What do you think?

Thanks for sharing, KP. Look forward to going through it.

Can you save this as a PPT and send over so that I can do some edits to send you?

Ime

From: Konstantinos Papamiltiadis
Date: Friday, September 20, 2013 5:51 AM
To: Ime Archibong
Subject: Re: What do you think?

Hello Ime,

As a follow up to your feedback and the call with the DevOps folks, I went ahead and updated the slides. Attached.

There are a few things we need to talk about, that I did not realize, that you may be aware of.

Should we use our 1to1 on Monday to go through those? Do please (provided you have time), send me any further thoughts you may have on those in the meantime.

Once you are happy I think we will need to share those with the following folks:
1/ Allison when she is back from Jury duty as we need to review potential changes on the policies
2/ Chris and Justin to address open questions
3/ Sam, Vernal and Doug for final sign off

Thanks a lot,
kp

From: Ime Archibong
Date: Thursday, September 19, 2013 5:54 AM
To: Konstantinos Papamiltiadis
Subject: Re: What do you think?

Ok. I'm quadruple booked at that time, so I'll sync up with you after if anything changes. :-)

From: Konstantinos Papamiltiadis
Date: Wednesday, September 18, 2013 9:44 PM
To: Ime Archibong
Subject: Re: What do you think?

Just did! I hope you can make it!

On 19 Sep 2013, at 04:18, "Ime Archibong" wrote:

And I'm happy to join tomorrow's mtg if I'm free. Feel free to fwd the invite.

From: Konstantinos Papamiltiadis
Date: Wednesday, September 18, 2013 10:06 AM
To: Ime Archibong
Subject: Re: What do you think?

Hello Ime,

I spent the best part of today thinking about the process as well as the requirements but the attached is still an early draft.

Still, I wanted to get your initial thoughts as I was planning to use those slides when I talk to DevOps and Allison tomorrow morning (at 11am if you want to join) about this.

Key points:

- 1/ Find out what other apps like Refresh are out there that we don't want to share data with and figure out if they spend on NEKO
 - * Communicate in one-go to all apps that don't spend that those permission will be revoked
 - * Communicate to the rest that they need to spend on NEKO at least \$ 250K a year to maintain access to the data
- 2/ Review future submissions and reject/approve as per the requirements above
- 3/ Update our policies if need be
- 4/ Comms / PR plan if # of apps affected is significant

Just fyi, we will be at an EMEA offsite tomorrow – but will be online late in the afternoon.

Thanks a lot,
kp

From: Ime Archibong
Date: Tuesday, September 17, 2013 9:57 PM
To: Konstantinos Papamiltiadis
Subject: Re: What do you think?

Oh, just seeing this but sent a separate response.

I'm ok with the outcome but let's just figure out how to do things elegantly. I don't think he denied option A. I think we should adjust that approach to being a bit more aggressive with our data restrictions, to protect our strategic goals.

Great job.

From: Konstantinos Papamiltiadis
Date: Tuesday, September 17, 2013 1:40 PM
To: Ime Archibong
Subject: What do you think?

While I can't say mission accomplished (given Sam did not go for option A), I think overall it was a good half way solution. Would you agree?

As for next steps, I will put a few thoughts together on:

1/ How to make this elegantly

2/ The specific requirements for our review team and SPDs to counter offer to developers

Thanks for setting this one up,
kp

EXHIBIT 80

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Simon Cross
Sent: Thursday, September 05, 2013 12:33 PM
To: Konstantinos Papamiltiadis; Ime Archibong; Jackie Chang
Subject: Re: P3.0 Rollout Planning

Id say for now, just list out the capabilities/Gks/Sitevars we want to audit – but don't actually do the audit - that's what we'll do in the hack. We need to build collective experience on how to review the access that's been granted, and how to make decisions about keep/kill/contract.

This review cycle should include whats currently in Capabilities, as well as whitelists administered via Gks and Sitevars. I don't want us to have to go through this excise ever again. For example, we should appraise what Netflix (for example) has across all these three whitelisting mechanisms in one go.

S

--
Simon Cross
Product Partnerships

From: Konstantinos Papamiltiadis
Date: Thursday, September 5, 2013 11:05 AM
To: Simon Cross , Ime Archibong , Jackie Chang
Subject: Re: P3.0 Rollout Planning

Awesome. I could try either of the following two options:

- 1/ Identify capabilities that matter and find out which companies use them and audit those
- 2/ Audit Tier 0 and 1 partners across all the capabilities

From previous conversations with Marie adding the GKs into the Talent tool is still a few months out, so we may need to repeat the process then.

Any thoughts/preferences mainly on either 1 or 2 above?

Cheers,
kp

From: Simon Cross
Date: Thursday, September 5, 2013 7:00 PM
To: Konstantinos Papamiltiadis , Ime Archibong , Jackie Chang
Subject: Re: P3.0 Rollout Planning

Sure!

The main thing is planning for the "Capabilities Cleanup".

As we discussed, probably the best way to do this is to attack it as a 2 day (?) hackathon. We should involve some guys from the scaled outreach team and the PMD team too, and possibly others who are still at the company who used to be involved in Partnerships.

What we need to do to make this happen is the following:

- Draw up a list of the Capabilities, the Gatekeepers and the non-capability sitevars that we want to include in the audit – perhaps tiering them by significance.
- Draw up a list of the high-risk/threat companies (and their apps) that we want to audit – we should order these by MAU
- Build a spreadsheet for use in the hack where we list out the apps, companies and capabilities we've audited, and our decision about any action we take. I think this comes down to 4 options:
 1. Keep access (and verify we have an agreement with them)
 2. Revoke access
 3. Keep access, but need to get an extended Platform agreement with them
 4. Escalate (need someone else to make a call, or to provide more context)

The first two bullets will be the place to start.

Want to take a stab at that?

We should also check with Marie about the scope of what the Talent tool covers, and if they have imminent plans to migrate whitelists currently controlled by Sitevars or Gatekeeper into this tool.

S

--

Simon Cross
Product Partnerships

From: Konstantinos Papamiltiadis
Date: Thursday, September 5, 2013 10:47 AM
To: Simon Cross, Ime Archibong, Jackie Chang
Subject: Re: P3.0 Rollout Planning

Hello Simon,

Are there any actionable items after the meeting with Chris I could help with?

Let me know.

Cheers,
kp

From: Simon Cross
Date: Wednesday, September 4, 2013 7:57 PM
To: Konstantinos Papamiltiadis, Ime Archibong, Jackie Chang
Subject: Re: P3.0 Rollout Planning

Feedback in line:

From: Konstantinos Papamiltiadis
Date: Wednesday, September 4, 2013 4:28 AM
To: Simon Cross ; Ime Archibong ; Jackie Chang
Subject: Re: P3.0 Rollout Planning

This is SUPER, Simon. You nailed it.

A few recommendation on minor issues:

1/ Slide 2: I think you are right to suggest that a full audit is a huge task with unclear value. I certainly agree with your recommendation, however I would recommend that we do a thorough audit on the apps that have been whitelisted for capabilities equivalent to the public APIs we will be deprecating, i.e apps that have been whitelisted for read_stream APIs should be audited the same way as those that request the read_stream permission. Same for friends_*, read_mailbox, etc. My take is that if we deprecated the permission, there is no point maintaining access to the capability all together.

Agree we should review these – however, the capability will remain to give access features which are publicly deprecated, but available to whitelisted apps.

2/ Slide 3: How did you come up with the Tiering & SLA here? My 2cents is that this is a bit confusing and I would stick to the classification outlined on Slide 4.

This is actually the classification the PM team are using. They're separating partner APIs (titan api, auth.login) from the set of APIs you need to rebuild a Facebook client (FB in-house apps, BlackBerry, Windows Phone). The aim is to reduce the # of third party 'internal' apps and manage them more strongly.

3/ Slide 4: Should we add a few examples next to the 4 categories, i.e Pre-enforce: Twitter, Standard: Amazon, Extension: Samsung TV, Exception: HTC

Yep - done

4/ Slide 5: I am not sure about the revenue saved. Is this really a cost-cutting exercise? Removing access to all_friends lists seems more like an indirect way to drive NEKO adoption.

Jackie and I discussed this – I think most people here have no idea of the cost we expend running these APIs or which apps cost use the most. I agree with Jackie that instrumenting this gives us a great line internally about the money we're saving as well as cleaning up the platform.

5/ Slide 7: I think the XFN team should also include the TV and Mobile folks together with Games.

sure

6/ Slide 8: We need to make a recommendation on who can help us with the audit. Would that be dev ops? As per the discussion with Allison, they have no capacity to help us. Could we ask for Justin's help with the UO team?

Agree we need help – not sure which team is best as it depends on how deep we decide to go, will leave as open question.

I hope this feedback is useful. Thanks again for putting those together.

Cheers,
kp

From: Simon Cross
Date: Wednesday, September 4, 2013 3:28 AM

To: Ime Archibong , Jackie Chang , Konstantinos Papamiltiadis

Subject: Re: P3.0 Rollout Planning

Here's my draft deck for review tomorrow.

Yes, its a little longer than hoped, but I feel it needs to standalone when passed around beyond Chris, assuming he's OK with this strategy.

Feedback welcome, will try and incorporate ASAP

S

From:

When: 2:00 PM - 2:30 PM September 4, 2013

Subject: P3.0 Rollout Planning

Location: [LON0042.05] Nemesis; [MPK0018.02N] Barbie & Ken (Reservable Seats 8 LCD/WB)

Moving so Jackie can make it, and better for KP

EXHIBIT 83

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Bryan Hurren
Sent: Monday, October 28, 2013 1:31 PM
To: Ashley Rutledge; Jackie Chang
Cc: Simon Cross; Sachin Monga; Eddie O'Neil
Subject: Re: Follow up on Friends List + Messages API

I let me dig up the email. I may have sent it only to Sachin

----- Original message -----

From: Ashley Rutledge
Date: 10/28/2013 1:23 PM (GMT-08:00)
To: Jackie Chang
Cc: Bryan Hurren, Simon Cross, Sachin Monga, Eddie O'Neil
Subject: Re: Follow up on Friends List + Messages API

Hi Jackie,
Yes, I will communicate to the client and run point on execution.

I have a meeting this Thursday at 9a est. Any chance I could have a draft of the doc prior?

Thanks
Ashley

On 2013-10-28, at 4:09 PM, "Jackie Chang" wrote:

+ Eddie

@Bryan - can you take the lead on getting this agreement written up?
@Eddie - Doug gave approval for for Royal Bank to use Titan API and they're now ready for launch. As a heads up, Bryan will take the lead in getting the agreement in place with RBC, but worth putting on your radar that there are now 2 partners with this whitelist api.
@Sachin & Ashley - once Bryan get's the agreement, can you get your partner to sign the agreement and do not let them launch until they get the agreement back to us?

From: Bryan Hurren
Date: Friday, October 25, 2013 at 11:06 AM
To: Simon Cross, Ashley Rutledge, Jackie
Cc: Sachin Monga
Subject: Re: Follow up on Friends List + Messages API

Sachin and I were chatting on another trail, and I spoke to Eddie yesterday briefly.

Eddie's view is that this is a good use case, but would like to see the experience.

From a PR perspective, the story is about the app, not the API, so the fact that it uses Titan isn't a big deal.

From a legal perspective, they need an "Extended API agreement" (we used with Netflix) which governs use going forward and should provide us the freedom to make the changes that Simon mentions below (without being too explicit). One thing that's not clear to me: I'm not sure how Titan will interop with a hashed version of the FBID.

Happy to help facilitate getting an agreement written up. Suzie and Frank were the BD and legal folks I worked with.

--

bryan hurren | strategic partnerships | facebook |

From: Simon Cross
Date: Friday, October 25, 2013 at 10:56 AM
To: Ashley Rutledge, Jackie Chang
Cc: Sachin Monga, Bryan Hurren
Subject: Re: Follow up on Friends List + Messages API

+ bryan who recently whitelisted Netflix for the messages API – he will have a better idea of what agreements we need to give them access to this API.

S

--

Simon Cross
Product Partnerships

From: Ashley Rutledge
Date: Friday, October 25, 2013 8:56 AM
To: Simon Cross, Jackie Chang
Cc: Sachin Monga
Subject: Re: Follow up on Friends List + Messages API

Hi Simon and Jackie!

I mentioned to Sachin yesterday that I would like to speak via phone with Simon re: the potential contract needed. Jackie, please let me know if you would like to be involved. Note I have no issue suggesting this to the RBC clients, however want to be sure I understand what purpose it serves and what this will protect.

Please be on the look out for a meeting maker...

Thanks,
Ashley

Ashley Rutledge
Facebook

From: Simon Cross
Date: Wednesday, October 23, 2013 1:34 PM
To: Jackie Chang
Cc: Sachin Monga
Subject: Re: Follow up on Friends List + Messages API

Hey sachin,

Do we have a contract with them that covers the use of the messaging API?

As that's already a private API it shouldn't be affected by ps12n.

The big change you should quietly ensure they'll be ready to handle is the move to hashed uids. This means that once the migration is enabled, un-ToS'd users' ids will change.

But the good news is that because of this change, we'll continue to return the users full friend list. The message API allows users to send messages to un-ToS'd friends today right?

As Jackie says, we shouldn't give them a heads up that change is a-coming.

Let's ensure we have a contact with them which sets us up to keep them on our whitelist post ps12n.

S

Sent from my iPhone

On 23 Oct 2013, at 10:19, "Jackie Chang" wrote:

+ Simon who's leading the efforts around this on our end

Developers are allowed to develop under the current framework. We ask that no discussion of PS with partners until messaging is fully prepared, etc.

When it comes time for PS, we'll figure out paths to unwind partners in a reasonable time, but because nothing is solidified yet, we can't guide anyone on what or what not to do.

We'll just flag this integration with Simon as one of the apps we'll need to work closely with on providing a reasonable unwind path when it comes time.

Hope that helps. Thanks!

From: Sachin Monga
Date: Tuesday, October 22, 2013 6:24 PM
To: Jackie
Cc: Ashley Rutledge
Subject: Re: Follow up on Friends List + Messages API

Hey Jackie,

We're getting closer to launch and the app is looking great.

I saw Eddie's post

here: <https://www.facebook.com/groups/platform.eng/permalink/713869448626518/> and wanted to follow up to make sure there were no red flags with respect to platform simplification for this app.

As a reminder, they are using friends list + messages API to allow an authenticated user to send money to a friend (regardless of whether the friend is authenticated or not).

Hope things are well. Let me know if there's anything we need to do here.

Thanks -

Sachin

From: Jackie Chang
Date: Thursday, August 22, 2013 7:19 AM
To: Sachin Monga
Subject: Re: Follow up on Friends List + Messages API

Let's pause any action for now until we have internal discussions about this tomorrow. I should have better guidance for you Friday/next Monday. Don't be anxious - we'll do the right thing to take care of this. Thanks!

From: Sachin Monga
Date: Wednesday, August 21, 2013 7:11 PM
To: Jackie
Subject: Re: Follow up on Friends List + Messages API

Hey Jackie -

Do you have an estimated time frame on when we might have a better understanding of whether or not the Messages API will include the ability to access non-app friends? I'm a bit anxious about this given how close we are to launching and how much is on the line for the partnership. Any update (if we haven't figured it out even just an estimate on when we might) would be great. Also, if there is anything I can do to help (provide more info, etc.) please let me know.

Thanks -

Sachin

From: Sachin Monga
Date: Tuesday, August 20, 2013 11:34 AM
To: Jackie Chang
Subject: Re: Follow up on Friends List + Messages API

Launching iPad on October 1, then iPhone in November. Also to clarify – it will be an update to their existing iOS app (<https://itunes.apple.com/ca/app/rbc-mobile/id407597290?mt=8>).

They are not using our payments system. Banking in Canada is semi-regulated, and every bank banded together to create a system called Interac (<http://en.wikipedia.org/wiki/Interac>). Interac powers the back end of all debit purchases and also allows anyone with a Canadian bank account to send money to anyone else with a Canadian bank account. Every bank has a function in their mobile app and website called "Interac eTransfer" that lets you send money to another person via their email address (powered by Interac). Their FB integration is simply allowing this transfer to happen over Facebook Messages as well.

From: Jackie Chang
Date: Tuesday, August 20, 2013 11:08 AM
To: Sachin Monga
Subject: Re: Follow up on Friends List + Messages API

Also - when are they launching this?

From: Jackie
Date: Tuesday, August 20, 2013 11:03 AM
To: Sachin Monga
Subject: Re: Follow up on Friends List + Messages API

Are they going to be on our payments system or are they just relaying on our channels?

From: Sachin Monga
Date: Tuesday, August 20, 2013 10:58 AM
To: Jackie , Constantin Koumouzelis
Cc: Ashley Rutledge , Neil Hiltz
Subject: Re: Follow up on Friends List + Messages API

Thanks for the quick response. Answers below:

1. Correct, partner is RBC Royal Bank (RBC_payments group in the whitelist tool) and their AppIDs (dev, staging, prod) are here https://our.intern.facebook.com/intern/capabilities/group.php?group_name=RBC_payments
2. They did not sign an extended API agreement. Should they have? I didn't know about this – I was following this doc: <https://www.facebook.com/groups/420494141332540/doc/421300334585254/>
3. Doug gave the approval. Permalink in group: <https://www.facebook.com/groups/420494141332540/500405533341400/> and also attached a couple of email threads where he comments that it's a great use case.
4. There is budget tied specifically to this app update (all mobile app install ads to existing RBC customers, via custom audiences). I believe it will be one of the biggest neko campaigns ever run in Canada (Ashley can comment with more details).

Thanks again!

Sachin

From: Jackie Chang
Date: Tuesday, August 20, 2013 10:46 AM
To: Sachin Monga, Constantin Koumouzelis

Cc: Ashley Rutledge, Neil Hiltz
Subject: Re: Follow up on Friends List + Messages API

Sachin, thanks for the below details. What would really be helpful for us is if you can provide the below details first:

- 1/ what's their app id? (Partner is RBC Royal Bank)
- 2/ did they sign an extended api agreement when you whitelisted them for this api?
- 3/ who internally gave you approval to extend them whitelist access? Can you send me email or permalink from the Platform Whitelist Approval group.
- 4/ is there budget tied specifically to this integration? How much?

We need the above info foremost and we understand the context below. Thanks!

From: Sachin Monga
Date: Tuesday, August 20, 2013 10:38 AM
To: Jackie, Constantin Koumouzelis
Cc: Ashley Rutledge, Neil Hiltz
Subject: Follow up on Friends List + Messages API

Hey Jackie & Constantin,

Long time no talk, hope you guys are doing well.

Wanted to follow up about on this thread https://www.facebook.com/groups/platform.fyi/permalink/550920554956564/?comment_id=551335571581729&offset=0&total_comments=8 about the upcoming Platform 3.0 rollout. Overall, I'm really pumped about these changes and I think they definitely represent a positive direction for user trust.

It seems like the main use case for an authenticated user to be able to access their entire list of friends (including non-app friends) is invites, so glad to see that we'll be creating a specific invite solution to meet this case. Another valid use case is messaging, although there are only a handful of partners who have access to the Messages API (as far as I know only Dropbox, RBC, and our own first party apps?). I want to see if I can work with you on managing this use case with the upcoming changes. My initial thinking is that the ability to access friends list can be coupled with the Messages API (and in this case, you can only access friends list for the purpose of messaging a friend as opposed to invites, etc.). I'm guessing the invite solution will be similar (only access friends list for the purpose of inviting them to the app in a safe manner).

Without the ability to access non-app friends, the Messages API becomes drastically less useful. It will also be impossible to build P2P payments within the RBC app, which would have dire consequences for our partnership with them (each side has been invested in this since the beginning of the year, and there is a big financial commitment from them). They are the biggest bank in Canada, a top 20 global bank, and the Platform, Payments, and Messages teams are all really excited about this use case for its potential to (a) have the finserv industry re-think the role of Facebook in retail banking, and (b) act as a test case for

more compelling high signal 'transactions' over FB messages (sending money, sharing files, customer service with a business, etc.).

The user flow of the app is attached (basic flow is a user authenticates, sees a list of their friends, chooses a friend, enters the \$ amount, and hits send. Their friend receives a FB message with a link to claim the money). Besides icons and names, it's accurate and finalized and had been approved by Doug & the payments team a couple of months ago.

We're a little anxious about this change – and hoping to see what I can do to help manage the transition. I'm actually in MPK this week if you want to catch up live... let me know.

Also cc'd Ashley who leads the relationship with RBC and Neil who is the vertical solutions lead on Financial Services.

Thanks -

Sachin

EXHIBIT 84

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Konstantinos Papamiltiadis
Sent: Friday, February 06, 2015 10:55 AM
To:
Subject: Re: Changes to FB API April 2015 - Hashed Anon All Friends API

Hello ,

Can you please share the exact request you make to get this error message?

Thanks a lot,
kp

From: badoo.com>
Date: Friday, February 6, 2015 at 5:59 PM
To: Konstantinos Papamiltiadis
Cc: badoo.com>, badoo.com>, Julien Codorniou
Subject: Re: Changes to FB API April 2015 - Hashed Anon All Friends API

Well, we did a lot of calls in a different way, but here is an error we get:

—
{"error":{"message":"Unsupported get request. Please read the Graph API documentation at <https://developers.facebook.com/docs/graph-api>","type":"GraphMethodException","code":100}}

—
On 6 Feb 2015, at 14:01, Konstantinos Papamiltiadis wrote:

Hello

Badoo App ID has definitely been whitelisted... According to our logs you have made already 100 calls against this API.

Are you following the guidelines from the docs (specifying an app secret, etc)?

Thanks a lot,
kp

From: badoo.com>
Date: Thursday, February 5, 2015 at 11:20 AM
To: Konstantinos Papamiltiadis
Cc: badoo.com>, badoo.com>, Julien Codorniou
Subject: Re: Changes to FB API April 2015 - Hashed Anon All Friends API

Hi,

Developers are looking into it and they coming back with report of API returning error.
Also according to doc we will not be able to show name/profile pic and even people who granted permissions will be hashed?
Because your original explanation was about existing users will be opened?
Anyway if for "hashed" we can only say: you have 2 levels of connections it will be kind of not trustworthy for the end users.

On 5 Feb 2015, at 08:46, Konstantinos Papamiltiadis wrote:

Hello All,

We have now whitelisted Badoo (App ID:), HotorNot (App ID:) and Bumble (App ID:) for the Hashed Friends API that was shipped late last night.

The docs are here: https://developers.facebook.com/docs/graph-api/reference/v2.2/user/hashed_friends – only visible to people listed in the roles section of your app.

Please start testing this API as soon as can – and feel free to give feedback or ask any questions you have.

We sincerely hope that this API along with the All Mutual Friends API https://developers.facebook.com/docs/graph-api/reference/v2.2/user.context/all_mutual_friends means you have everything you need to upgrade to Graph API v2.x.

Thanks a lot,
konstantinos

From: Konstantinos Papamiltiadis
Date: Friday, January 23, 2015 at 11:02 AM
To: badoo.com>, badoo.com>,
badoo.com>
Cc: badoo.com>, Julien Codorniou
Subject: Re: Changes to FB API April 2015 - Hashed Anon All Friends API

Hello and ,

We have now approval from our internal stakeholders to move ahead with a new API – working name Hashed Anon All Friends API. The new API as well as the relevant docs will be ready next week.

How would this API work... For each of the FB logged in users, the API will return:
FBIDs: App friends that logged in before your migration to V2:
App Scoped IDs: App friends that logged in after your migration to V2:
Anonymous one-way hashed IDs: Non-app friends

This API will hopefully let you understand some of the structure of the graph in order to determine which non-app friends to recommend to a given user, and thus which pairs of users to call the All Mutual Friends API on behalf of. These hashed IDs will be in an entirely

new namespace (i.e. Different to anything you have today). its purely for matching 2nd and 3rd order mutual friends etc.

The following example may help...

<7A763973-555B-4DCB-BB50-2CBC18D49B38.png>

For u1, we'd emit hashed IDs for: u8, u5, u4 & app scoped ID for u3

For u2, we'd emit hashed IDs for: u6 , u4 & app scoped ID for u3 and u7

For u7, we'd emit hashed IDs for: u5 & app scoped ID for u2

Thus, the app could determine that u1 and u2 are related:

- * via u3 (2nd order via app-user)
- * via u4 (2nd order via non-app user)
- * u5 and u7 (3rd order).

Note, the relationship via u6 would not be known as u6 is not friends with ≥ 2 app-users.

Based on the above, the number of API calls you will need to make against the Mutual Friends API will be drastically reduced as well.

Let me know if that would work.

kp

From: badoo.com>
Date: Thursday, September 18, 2014 at 11:24 AM
To: Konstantinos Papamiltiadis
Cc: badoo.com>
Subject: Re: Changes to FB API April 2015

Hi KP

We are talking about the complete friends list and no other friends data (other than the profile picture of the friend).

Thanks, we look forward to hearing.

On 18 Sep 2014, at 11:24, Konstantinos Papamiltiadis wrote:

Hello

With regards to point (a) below, can I please clarify that you are talking about the complete friends list and not any other friends data, such as friends_photos, that you request right now, even though there is no obvious use of the data?

As per my earlier note, I have already flagged this with the leadership in the product team and we are certainly thinking about both (a) and (b) below – with the exception of friends_* data.

I shall be able to send you an update once we have a better idea of the plan here.

kp

From: konstantinos@badoo.com
Date: Tuesday, September 16, 2014 at 9:03 PM
To: Konstantinos Papamiltiadis
Cc: konstantinos@badoo.com
Subject: Changes to FB API April 2015

Hi KP

Hope you're well.

I know you've had a chat with [redacted] about the changes coming up to the FB API. I was planning to send an email along the lines of the draft below to the platform team, and specifically Sean Ryan (VP of Platform Partnerships) and possibly Nicola Medelsohn Head of EMEA.

Could I ask a favour of you? Firstly, do you think they're the right people, secondly, do you think the email below is along the right lines? Any feedback greatly appreciated!

Best

Dear Facebook Platform Team

We write to you with regard to the v2.0 API which will be in effect from April 2015.

We understand, and commend the steps being taken by Facebook to tighten security around the use of user data, and indeed limit opportunity for abuse of user friend lists. However, we have been compelled to write to you to explain the hugely detrimental effect that removing friend permissions will cause to our hugely popular (and profitable) applications Badoo and Hot or Not.

The friends data we receive from users is integral to our product (and indeed a key reason for building Facebook verification into our apps). Without the ability to access and use social graphs, applications become not just generic, but the "social" aspect is removed. Specifically in relation to our applications, the reason that Friends data is crucial to our product are:

a. User engagement is increased by users being able to see shared/mutual friends. This is because for applications like ours, where users are meeting and chatting, a huge element of trust, and engagement is created by showing users shared friends. To reiterate, within this process, we don't abuse any data, we simply show users a name and photo of the friend and demonstrate the connection.

b. We use friend lists to enable users to 'recommend' friends to other friends. This is an exciting feature of our applications, and enhances the user experience, again, by bringing in, and supporting the element of trust on the application, but also as a fun engagement feature.

c. In order to reduce and limit fraudulent/Spam/Scam on our applications, we also analyse friend lists by cross referencing against our maintained lists of known fraudsters, in order to verify the safety of accounts. This improves the user experience and improves the safety of our site.

In our view it is a misperception that friend permissions are used to add virality of an application/spam users. They are vital to the integrity, trust and engagement of a product, and it is for these reasons alone that we use the friend social graph in our application. We would therefore be very grateful if you could reconsider how the proposed changes will be applied to our applications, and whether there are any assurances we can give to you that would support a change in your decision.

We look forward to hearing from you, and would be happy to set up a call/arrange a meeting to discuss in more detail.

Kind regards

Director & General Counsel

badoo.com

<badoo logo small.gif>

Badoo Trading Limited is a limited company registered in England and Wales under CRN 7540255 with its registered office at Media Village, 131-151 Great Titchfield Street, London, W1W 5BB

This email is confidential and is intended for the addressee only. If you have received it in error, you are on notice of its status. Please notify us by reply e-mail and then delete this message from your system. Please do not copy it or use it for any purpose or disclose its content to any other person.

<badoo logo small.gif>

<badoo logo small.gif>

Badoo Trading Limited is a limited company registered in England and Wales under CRN 7540255 with its registered office at Media Village, 131-151 Great Titchfield Street, London, W1W 5BB

This email is confidential and is intended for the addressee only. If you have received it in error, you are on notice of its status. Please notify us by reply e-mail and then delete this message from your system. Please do not copy it or use it for any purpose or disclose its content to any other person.

<badoo logo small.gif><7A763973-555B-4DCB-BB50-2CBC18D49B38.png>

EXHIBIT 85

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: @hootsuite.com>
Sent: Wednesday, April 29, 2015 5:44 PM
To: Monica Tsang
Cc: Reagan Williams; Simon Cross; : Marty Henningsgard; Ashley Moore; Evan Chen; Trevor Longman; Sachin Monga; Phil Lam; Gregory Gunn; Chris Richardson; Harshdeep Singh; Konstantinos Papamiltiadis; Allison Hendrix; Tiffany Jung; Chris Gora
Subject: Re: Hootsuite: 2.0 next steps

Great, cheers!

On Wed, Apr 29, 2015 at 5:06 PM, Monica Tsang wrote:
Hi ,

Attached is the updated agreement with valid ids (please double check) and removed the duplicate one.

Thanks,
Monica Tsang

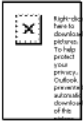
From:
Date: Wednesday, April 29, 2015 at 7:18 PM
To: Reagan Williams
Cc: Simon Cross, Monica Tsang, : Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Tiffany Jung, Chris Gora
Subject: Re: Hootsuite: 2.0 next steps

Hi Reagan, one more thing - just tried to correct the Hootsuite Production ID (should be :) & remove the duplication, but the document is locked for editing.

Can you please update on your end?

On Wed, Apr 29, 2015 at 4:00 PM, @hootsuite.com> wrote:
Thanks Reagan. Our follow up notes:

- 1) Good catch - these is a '1' missing from the end of the ID + they're just duplicates of eachother. Will make sure this is properly updated before returning.
- 2) Discussed your summary with Product, and yes, that's also our understanding of how mapping will behave across our different environments.



Manager, Strategic Alliances | [Hootsuite](#)
@costyou

Find Hootsuite online:



We are hiring in a *big* way! [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

Hootsuite Media Inc., 5 East 8th Avenue.
Vancouver, BC, V5T 1R6.

On Wed, Apr 29, 2015 at 3:39 PM, Reagan Williams · wrote:

Two quick items:

- 1) We just noticed that the first two appids listed on line #1 and #2 are invalid/incorrect in Exhibit A. Please make sure those 2 lines are updated on the final contract.
- 2) Simon and I were talking and we want to confirm we all understand functionality with your team on how the mapping will behave, and how it will interact between environments:

Hootsuite Prod will be able to map appids from it's own app to NG and Actiance.
 Hootsuite Staging will be able to map appids from it's own app to NG and Actiance.
 Hootsuite Dev will be able to map appids from it's own app to NG and Actiance.

Lastly, a user's id will be different between the Hootsuite prod, staging, and dev environments as per our standard app-scoped-id behavior.

Reagan

From:

Date: Wednesday, April 29, 2015 at 3:27 PM

To: Simon Cross

Cc: Monica Tsang, Reagan Williams, , Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Tiffany Jung, Chris Gora

Subject: Re: Hootsuite: 2.0 next steps

Will get this turned around as soon as possible.

Thank you for all the hard work on this!

On Wed, Apr 29, 2015 at 3:23 PM, Simon Cross · wrote:
+ Reagan

From: Monica Tsang

Date: Tuesday, April 28, 2015 at 6:43 PM

To:

Cc: Simon Cross, , Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Tiffany Jung, Chris Gora

Subject: Re: Hootsuite: 2.0 next steps

Hi

Updated agreement. See attached.

Thanks,

Monica Tsang

From:

Date: Tuesday, April 28, 2015 at 2:23 PM

To: Monica Tsang

Cc: Simon Cross, , Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Tiffany Jung, Chris Gora

Subject: Re: Hootsuite: 2.0 next steps

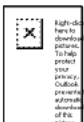
Hi Monica,

Checked in with the technical team working on the Mapping API and they mentioned that we'll need whitelisting for each of our application environments, including dev + staging (listed below) for our continuous deployment process. Can we please add them to the whitelist + agreement?

Staging -

Dev -

Otherwise, Legal has reviewed and everything else looks great!



Manager, Strategic Alliances | [Hootsuite](#)
[@costyou](#)

Find Hootsuite online:



We are hiring in a *big way!* [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

Hootsuite Media Inc., 5 East 8th Avenue.
Vancouver, BC, V5T 1R6.

On Mon, Apr 27, 2015 at 10:37 PM,

[@hootsuite.com](#)> wrote:

Great, thanks Monica!

Our team will review & get back to you as soon as possible.

On Mon, Apr 27, 2015 at 8:15 PM, Monica Tsang wrote:
Hi

Our legal team approved the changes you proposed, see attached for latest contract.

Once signed and returned, we will be able to provide you with the mapping API. Let me know if you have any questions.

Thanks,
Monica Tsang

From:

Date: Monday, April 20, 2015 at 6:25 PM

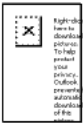
To: Monica Tsang

Cc: Simon Cross, , Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Tiffany Jung, Chris Gora

Subject: Re: Hootsuite: 2.0 next steps

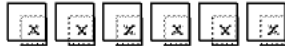
That is a big help, thank you Monica!

Our legal team is reviewing and we'll get back to you on this as soon as possible.



Manager, Strategic Alliances | [Hootsuite](#)
[@costyou](#)

Find Hootsuite online:



We are hiring in a *big* way! [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

Hootsuite Media Inc., 5 East 8th Avenue.
Vancouver, BC, V5T 1R6.

On Mon, Apr 20, 2015 at 2:44 PM, Monica Tsang wrote:
Hi

We did a little bit of research, and found the AppIDs. I've attached the legal agreement. Please double check that the information is correct.

Feel free to reach out if you have any questions.

Thanks,
Monica Tsang

From: Monica Tsang

Date: Monday, April 20, 2015 at 12:57 PM

To:

Cc: Simon Cross, , Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Tiffany Jung, Chris Gora

Subject: Re: Hootsuite: 2.0 next steps

Hi

Just wanted to let you know the legal agreement is ready. I can send it over to you once you provide me with the app ids.

Thanks,
Monica Tsang

From: Monica Tsang

Date: Friday, April 17, 2015 at 4:41 PM

To:

Subject: Re: Hootsuite: 2.0 next steps

Thanks, keep me posted once you have the IDs. Thanks!

Have a great weekend!

Sent from my iPhone

On Apr 17, 2015, at 4:00 PM, monica@hootsuite.com <monica@hootsuite.com> wrote:

Hi Monica - still waiting on app IDs from Actiance + NexGate.

Our main contacts, plus my Enterprise Compliance BD team are OOO for SIFMA's major finance conference. In the meantime, below is the rest of the information you need:

Name:
Title: VP, Product
Developer: Hootsuite Media Inc.
Address:
Hootsuite appID:

On Wed, Apr 15, 2015 at 10:55 PM, Monica Tsang
Hey

wrote:

We're almost there with the legal agreement, we're hoping end of week (latest next Monday). In the meantime, can I get the following information from you?

Name: <Person who will be signing the contract at Hootsuite>
Title: <Title of person named above>
Developer: <Company full name>
Address: <Company address>
Hootsuite applD: <ID that will use the API>
Actiance applD:
NexGate applD:

Thanks,
Monica Tsang

From: Monica Tsang
Date: Thursday, April 9, 2015 at 10:06 PM
To:
Subject: Re: Hootsuite: 2.0 next steps

Hi

Thanks for letting me know about 2/. I'll make sure that the legal agreement is drafted to reflect this change. Slight change in timeline, I got a chance to sync up with our Legal team this afternoon, and it may take a little longer than next week to get the agreement to you as it's more complex than I initially thought. We are still aiming for next week, but wanted to set expectations with you that it may take until the week after (i.e. Week of 4/20).

Let me know if this is going to be an issue.

Thanks,
Monica Tsang

From: .
Date: Thursday, April 9, 2015 at 6:25 PM
To: Monica Tsang
Cc: Simon Cross, Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Tiffany Jung, Chris Gora
Subject: Re: Hootsuite: 2.0 next steps

Thanks for following up Monica.

We'll hang tight while Simon is OOO but in the meantime, I've got a few more notes from my team to share:

1/ Manage_Groups - given the anticipated scope of work required to integrate this permission, our dev team will need access by the end of next week to make the 2.0 deadline.

2/ User ID Mapping - based on most recent conversations with Global Relay, they don't actually support e-discovery and do not need to be included in the legal agreement. This change has been reflected in the [overview of compliance use cases & data-flows](#) we shared earlier.



Manager, Strategic Alliances | [Hootsuite](#)
@costyou

Find Hootsuite online:



We are hiring in a *big* way! [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

Hootsuite Media Inc., 5 East 8th Avenue.
Vancouver, BC, V5T 1R6.

On Thu, Apr 9, 2015 at 11:19 AM, Monica Tsang
Hi

wrote:

1/ Simon would be the best person to answer this question

2/ Work in progress. Hoping to have this over to you next week. Thanks for your patience.

Thanks,

Monica Tsang

From:

Date: Thursday, April 9, 2015 at 1:34 AM

To: Monica Tsang

Cc: Simon Cross, , Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Tiffany Jung, Chris Gora

Subject: Re: Hootsuite: 2.0 next steps

Hi Monica & Simon, wanted to check in on a few items required to inform client messaging + development efforts:

1/ Manage_Groups

- Still on track to release this week?
- Can you please clarify whether the core functionality listed below will be supported by the new permission? This info is needed for the communications (in-product, email, help article, etc) we're preparing to notify users of upcoming changes:
 1. View content in a groups that the user is an admin of
 2. Interact with content (like, comment, etc) in a group that the user is an admin of
 3. Publish messages to all groups a user belongs to, even if they are not an admin

2/ User ID Mapping Agreement

- Any updates on timing you can share?

Thank you!

On Mon, Apr 6, 2015 at 3:05 PM, [@hootsuite.com](mailto:)> wrote:
Hi Monica, we've confirmed that what you identified is the source of the discrepancies on deprecation notices we've been observing.

Thank you for the support!



Manager, Strategic Alliances | [Hootsuite](#)
[@costyou](#)

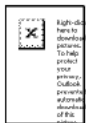
Find Hootsuite online: 

We are hiring in a *big* way! [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

Hootsuite Media Inc., 5 East 8th Avenue.
Vancouver, BC, V5T 1R6.

On Sun, Apr 5, 2015 at 5:59 PM [hootsuite.com](mailto:)> wrote:
Thanks Monica. Our dev team will look into this asap.



Manager, Strategic Alliances | [Hootsuite](#)
[@costyou](#)

Find Hootsuite online: 

We are hiring in a *big* way! [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

Hootsuite Media Inc., 5 East 8th Avenue.
Vancouver, BC, V5T 1R6.

On Sun, Apr 5, 2015 at 5:22 PM, Monica Tsang < > wrote:
Hi

I took a quick look, and your app – has enabled the default admin to v2.0 feature which can explain the behaviors you are seeing.

To turn it off, simply to go your app's dashboard > Settings > Migrations and set "Default Admins, Developers and Testers to Graph API v2.0" to OFF. Note – this toggle gets automatically reset to ON periodically, the next time it will be toggled to ON is this Thursday April 9th, 2015. So you will need to take these steps again on that day. FYI – We send out Dev Alerts on the day where this gets automatically re-enabled, so make sure you check your app inbox.

Hope this resolves your issue.

Thanks,
Monica Tsang

From: .

Date: Sunday, April 5, 2015 at 5:13 PM

To: Monica Tsang

Cc: Simon Cross, , Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Tiffany Jung, Chris Gora

Subject: Re: Hootsuite: 2.0 next steps

Thanks for prompt follow up Monica! I've forwarded to the right folks on our technical team to check.

On Sunday, April 5, 2015, Monica Tsang wrote:
Hi .

Simon is on vacation this week, so I hope I can help you resolve this issue.

Can you double check whether your app has enabled the default admin to v2.0 feature? See more info here: <https://developers.facebook.com/docs/apps/upgrading#defaulting20>

Thanks,
Monica Tsang

From:

Date: Sunday, April 5, 2015 at 4:18 PM

To: Simon Cross

Cc: , Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Monica Tsang, Tiffany Jung, Chris Gora

Subject: Re: Hootsuite: 2.0 next steps

Hi Simon - We've seen occasional deprecation notices being returned for Facebook Searches. In debugging this development, we haven't been able to find any commonalities between the users seeing it (Graph 1 token vs Graph 2 token, or user account vs developer account).

As such, my we're wondering if Facebook is rolling out a broad deprecation for this endpoint ahead of the Graph 2 changeover on April 30th? If so, if there is any info on this development that you can share with us? And if not, do you know what else may be causing these irregularities?

We're planning on starting our phased technical rollout of API changes timed against controlled in-product & direct client messaging, but this development (+ the *manage_groups* release) impacts plans so we're hoping to have more clarity w/in the next few days.

Thanks Simon, really appreciate the updates.

On Tue, Mar 31, 2015 at 7:49 PM, Simon Cross wrote:
Hey – thanks for checking in!

We're actively planning the manage groups permission – details to share soon, hopefully next week.

Same situation with the user ID mapping. Will let you know when we have any progress to share. Feel free to keep pinging me for updates.

S

From:
Date: Tuesday, March 31, 2015 at 5:17 PM
To:
Cc: Simon Cross, Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Monica Tsang, Tiffany Jung, Chris Gora
Subject: Re: Hootsuite: 2.0 next steps

Hi Simon,

Now that F8 has passed I wanted to check in and see if there's any updated timelines/info you can share on the manage_groups permission release or a draft of the User ID Mapping agreement.

Thanks, and hope you had some time over the weekend to relax & celebrate a successful F8.



Manager, Strategic Alliances | [Hootsuite](#)
[@costyou](#)

Find Hootsuite online:



We are hiring in a *big* way! [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

Hootsuite Media Inc., 5 East 8th Avenue.
Vancouver, BC, V5T 1R6.

On Fri, Mar 27, 2015 at 6:11 PM,
+() & who head up legal at Hootsuite.

@hootsuite.com> wrote:

Hi Simon - [here](#) is an overview of Hootsuite's communication with clients and partners to support pre & post-review compliance use cases. Please let us know if you have any Qs.

Also - your team did an amazing job with F8. Couldn't have been more impressed with the location, content or production, and I heard only heard that sentiment echoed across other FB Marketing Partners.

All the best,



Manager, Strategic Alliances | [Hootsuite](#)
[@costyou](#)

Find Hootsuite online:



We are hiring in a *big* way! [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

Hootsuite Media Inc., 5 East 8th Avenue.
Vancouver, BC, V5T 1R6.

On Sun, Mar 22, 2015 at 3:25 PM,
Hi Simon,

@hootsuite.com> wrote:

Agreed--getting a better understanding of context will definitely help when we move towards a firm agreement. To get there, Hootsuite will be summarizing everything in a doc this week, to be more easily shared.

In the meantime, I can answer your question. We haven't finalized the integration specification yet, but we are definitely leaning towards translating App-Scoped IDs into the Partner value at application borders. This will be a cleaner solution, allowing each app to deal w/ IDs in their own format, and allowing us to minimize the number of modules that have access to the ID translation API.

Thanks,

On Sun, Mar 22, 2015 at 2:55 PM, Simon Cross wrote:
Hey , yes, this should be enough.

Architecturally, we're still deciding the details of how this mapping would work in detail – for example: do you sent a HS ID to NexGate which they have the ability to resolve into their namespace, or do you translate to a NexGate ID before sending the data to them. This architecture depends very much on how data flows between you and your partners, and if any further data exchange happens between them.

Thanks for this – as I say, we're really on hold here until after F8, but I really appreciate this context.

S

From:
Date: Sunday, March 22, 2015 at 2:15 PM
To: Simon Cross

Cc: . Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix, Monica Tsang

Subject: Re: Hootsuite: 2.0 next steps

Hello Simon,

Data-flow diagrams might be a bit of overkill for these scenarios. Perhaps a simple text sequence might be easier:

Pre-Review (NexGate)

1. In Hootsuite, a message is authored and user clicks Send Now or Schedule
2. Message, with Facebook Profile ID, is sent to NexGate
3. In NexGate, message body is compared against compliance policy configured for that Facebook ID
4. Result (success or failure with context) is returned to Hootsuite
5. In Hootsuite, message is then either sent/scheduled on success, or a notification of failure is sent to the user on failure

Post-Review (Global Relay & Actiance)

1. In Hootsuite, a message is authored and user clicks Send Now or Schedule
2. Message is sent by Hootsuite to the selected Facebook Profiles/Pages
3. In Hootsuite, a digest of that message is prepared, including information on the user who published the message and native network ID (Facebook ID)
4. Hootsuite sends this message digest to either Global Relay or Actiance for archive
5. Some time later, during an e-Discovery investigation, the Facebook ID associated with the message is used to determine the actual Facebook account published to

In some cases, a partner like NexGate might have additional partnerships with archiving providers like Global Relay. In that scenario, the data would be further sent from NG over to Global Relay for archiving. NexGate would need to resolve the App-Scoped IDs in that scenario. A client might elect to use this workflow instead of directly archiving from Hootsuite (or directly archiving via just Global Relay) for any number of reasons (existing workflows, different network support, etc). It's important to note that these configurations are entirely up to the client, and are implemented at their direction.

Our proposed changes for App-Scoped IDs would involve Hootsuite using the ID mapping API to resolve the Hootsuite App-Scoped ID into the appropriate third party App-Scoped ID prior to sending information to our partners. Thus, the message would arrive at our partners APIs with their own App-Scoped ID in use.

On Sat, Mar 21, 2015 at 11:15 AM, Simon Cross wrote:
Hey .

We don't have any problems with pre-review. And we don't have any problems with post-review, as long as you're meeting our bar for use of the permissions: I.e. Making visible use of them to enhance the user's experience – and you've now been approved for us for all the permissions you should need to power these experiences – although as you know we can't grant read_stream, user_groups and read_mailbox for the post-review use case as per our previous conversations. There's no additional contracts needed here.

Re user-ID sharing between you and your partners, I do understand the timing issues, but our legal and partnerships teams are swamped with F8 so we're unlikely to make progress here until after that.

Yes – it would be super-valuable if you guys can share some info - perhaps data-flow diagrams that will help our legal and privacy teams understand how data flows between you and your various partners. Its also important for us to understand any ways data could flow between you and multiple compliance partners (NexGate + Global Relay etc)

As you know sharing user ID-level data between companies is against our policies, so granting exceptions under a contract requires us to really understand the systems in use here to ensure people's information is being properly protected. That said, I'm confident we can find a way to support your needs here.

Could you guys get some details to us towards the end of next week? Thanks for offering to put this together.

Best,

Simon

From:

Date: Friday, March 20, 2015 at 5:20 PM

To: Simon Cross

Cc: Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, John Hallett, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix

Subject: Re: Hootsuite: 2.0 next steps

Great, thank you for the follow up here Simon.

Also understand your position on providing written approval of use cases. But, since we've only verbally reviewed everything and timelines on legal turnaround will be very tight - would it be helpful for our team to share a brief overview of Hootsuite's pre & post-review use cases and our communication flows with clients + partners for reference while drafting the agreement?

I just want to ensure your team is fully supported & that legal review goes as quickly + smoothly as possible.

Hope all is going well w/ F8!



Manager, Strategic Alliances | [Hootsuite](#)
[@costyou](#)

Find Hootsuite online:



We are hiring in a *big* way! [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

On Wed, Mar 18, 2015 at 5:29 PM, Simon Cross wrote:

Following up again here, just to confirm you guys have now been approved for the following permissions:

- user_posts (1451957028376236)
- manage_pages (170547803119479)
- read_friendlists (204220799727469)
- read_page_mailboxes (206012479551763)
- publish_actions (268176543326971)
- user_photos (350208451771320)
- user_status (420181021422482)
- user_events (468518859900119)
- user_about_me (672343712783148)

Thanks,

Simon

From: Simon Cross

Date: Tuesday, March 17, 2015 at 7:10 PM

To:

Cc: Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam, Gregory Gunn, Chris Richardson, John Hallett, Harshdeep Singh, Konstantinos Papamiltiadis, Allison Hendrix

Subject: Re: Hootsuite: 2.0 next steps

Hey

I sadly can't provide any written guarantees that your use of our platform, or the use cases you outline, are within our policies. But I can say you're likely to be approved via Login Review for user_posts for these purposes as long as the data obtained via this permission is visibly used to enhance the experience of people who log into your app, and you follow our normal data-retention policies.

As to user ID sharing between you and your compliance partners, that is currently against our policies, but we hope to work up an agreement to cover this – though this is likely to be after F8.

That said, as the API v1.0 deprecation deadline is approaching, I suggest you begin the engineering and product work to migrate away from read_stream, user_groups and the Post Search API so as to avoid any disruption on April 30th.

Thanks,

S

From:

Date: Tuesday, March 17, 2015 at 2:56 PM

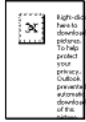
To: Simon Cross

Cc: Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga, Phil Lam,

Gregory Gunn, Chris Richardson, , Harshdeep Singh, Konstantinos Papamiltiadis
Subject: Re: Hootsuite: 2.0 next steps

Hi Simon, our technical + partner management teams needs to move forwards on this soon. Any update?

Thank you!



Manager, Strategic Alliances | [Hootsuite](#)
[@costyou](#)

Find Hootsuite online:



We are hiring in a *big* way! [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

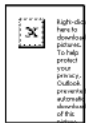
Hootsuite Media Inc., 5 East 8th Avenue.
Vancouver, BC, V5T 1R6.

On Thu, Mar 12, 2015 at 9:06 PM, @hootsuite.com> wrote:
Very helpful, thank you for the thorough follow up Simon!

With that timeline on legal, looks like we'll need to run development and legal work on User ID Mapping in parallel to make the migration deadline.

Though before Hootsuite and our compliance partners' technical teams can begin investing the engineering resources, they'll need explicit assurance that Facebook approves of the use cases we outlined (pre & post-review + archiving). Can you provide email confirmation of that approval for Hootsuite & our partners?

If so, Greg will take this solution back to technical execs and see if that provides enough confidence for engineering work to move forwards.



Manager, Strategic Alliances | [Hootsuite](#)
[@costyou](#)

Find Hootsuite online:



We are hiring in a *big* way! [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

Hootsuite Media Inc., 5 East 8th Avenue.
Vancouver, BC, V5T 1R6.

On Thu, Mar 12, 2015 at 9:37 AM, Simon Cross wrote:
Hey

User ID Mapping API:

- 1/ Yes, any solution will involve the Business Mapping API so you should start scoping out that work now.
- 2/ This will be a very manual process. The contract will likely list all the app Ids in play, and the mapping won't be provisioned until the contract has been signed by you and each of your partners.
- 3/ We're working through this now, targeting 3-4 weeks. As you'd imagine, F8 is our #1 priority right now and that's taking up much of our legal and partnerships team's bandwidth

New permissions:

1/ `user_posts` is now live! You can start using this now and add it to your Login Review submission. This permission has been auto granted to anyone who already has `read_stream` i.e most of your existing users. This means, assuming you get approved via Login Review, your existing users won't have to re-logging and grant this perms for your app to retain Timeline access. You should update all your login flows to request this permission as you move away from `read_stream`.

2/ `manage_groups`: We're still working on this and will share details in the next few weeks. Its likely that people will have to manually grant this permission in order for apps to retain access to some groups – as theres no other way for us to know which groups a user wants to grant the app access to without them explicitly saying so.

Hope that helps.

Simon

From:

Date: Wednesday, March 11, 2015 at 4:04 PM

To: Simon Cross, Marty Henningsgard, Ashley Moore, Evan Chen, Trevor Longman, Sachin Monga

Cc: Gregory Gunn, Chris Richardson,

Subject: Hootsuite: 2.0 next steps

Hi Simon and team,

Thanks for a great call on Monday and to keep the momentum, I wanted to follow up on the 2.0 migration issues we've been discussing:

Bi-directional Business Mapping API > given the complexity of implementing this solution - in particular coordinating engineering work across multiple compliance partners and drafting a legal agreement - we need to move fast on this.

- *Technical* - will the solution be based of the [Business Mapping API](#)? And if so, what will the registration process look like for Hootsuite & our compliance partners?
- *Legal* - is there an approximate timeline on the drafted legal agreement?

New Permissions (`user_post` & `manage_groups`)

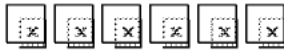
- *User Migration* - if an existing user has authenticated v1, what will the migration to net new permissions look like? Will these be granted automatically, or will a user need to re-auth?
- *User_post & manage_groups* - update on release timelines for these permissions?

Best,



Manager, Strategic Alliances | [Hootsuite](#)
[@costyou](#)

Find Hootsuite online:

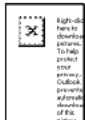


We are hiring in a *big* way! [Apply now](#)

This email is being sent on behalf of [Hootsuite Media, Inc.](#) If you are no longer interested in receiving emails from Hootsuite, please [unsubscribe here](#).

Hootsuite Media Inc., 5 East 8th Avenue.
Vancouver, BC, V5T 1R6.

--



Senior Product Manager | [Hootsuite](#)

Find Hootsuite online:



We are hiring in a *big* way! [Apply now](#)

--

Sent from my iPhone.

EXHIBIT 86

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Konstantinos Papamiltiadis
Sent: Monday, March 30, 2015 6:04 PM
To:
Subject: Re: API's currently in use
Attachments: image001.jpg; image002.jpg; image003.png; image004.jpg

Hello

Glad it all makes sense for you now, . I have now approval to get you an extension until the end of June for those permissions listed below in black.

Even before we reach the deadline, we need to update the apps so that by the end of June an update has already reached the current user base.

I will be working on the legal docs and send them your way soon.

kp

From: @Airbiquity.com>
Date: Monday, March 30, 2015 at 4:19 PM
To: Konstantinos Papamiltiadis
Subject: RE: API's currently in use

Hi KP,

Yes, I'm aware that all of the "friends" APIs are going away and we've already removed those from our app. We are waiting for Nissan to decide what direction they want to go in when the only feature we can support is Events.

I watched most of the f8 video presentations and I see now why Messages is being restricted. I also understand why the automotive experience is not as interesting to Facebook given the huge numbers of users you already have.

Thanks for letting me know and I will get in touch once we know what our OEM client plans.

From: Konstantinos Papamiltiadis
Sent: Monday, March 30, 2015 4:03 PM
To:
Subject: Re: API's currently in use

Hello

Just fyi, there are certain things that are going away on 04.30, that we can't provide an extension for, namely:

friends_events

friends_activities
friends_photos

I can try to get you an extension for the rest, but for the 3 ones above it won't be at all possible to support beyond 04.30.

kp

From:@Airbiquity.com>
Date: Tuesday, March 24, 2015 at 2:19 PM
To: Konstantinos Papamiltiadis
Subject: API's currently in use

KP,

I appreciate you taking the time to meet with and yesterday. I know that they were hoping to understand the reasoning behind the features being removed from our app. Hopefully, you were able to answer their questions so they can move forward.

..... asked me to send you the v1.0 API's that we use and are trying to map to v2.x API's. Here is the list but I'm assuming that all but user_events are either restricted or are limited by the permission process.

offline_access
read_stream
user_events
read_mailbox
friends_events
user_activities
friends_activities
user_photos
friends_photos
user_actions:instapp
publish_actions

Thanks,

Airbiquity



EXHIBIT 87

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Konstantinos Papamiltiadis
Sent: Monday, March 30, 2015 2:36 PM
To:
Cc: Francesca de Quesada Covey; ; Jon Park; ;
Subject: Re: Special API access

Hello

As far as I can tell, the App ID below has been whitelisted for All Mutual Friends access, see here: <https://developers.facebook.com/apps/137321729768368/review-status/>

But there are no Dev/test accounts set up here: <https://developers.facebook.com/apps/137321729768368/roles/>

The only people/accounts that seem to be able to use this API are real people using their real FB accounts.

Let me know if I am missing something here.

konstantinos

From: @lyft.com>
Date: Monday, March 30, 2015 at 1:15 PM
To: Konstantinos Papamiltiadis
Cc: Francesca de Quesada Covey @lyft.com>, Jon Park @lyft.com>, @lyft.com>, @lyft.com>
Subject: Re: Special API access

Hey Konstantinos,

We're doing all QA against our development facebook app: . This is the same app that our test accounts were created under. I don't believe we do any QA against the production facebook app.

Thanks!

Tech Lead - Enterprise



On Mon, Mar 30, 2015 at 12:00 PM, Konstantinos Papamiltiadis wrote:
Hello

And just to clarify, the dev/test accounts are for the same App ID that you use for your own real accounts or are you using them against a different app (most probably your test App)?

thanks a lot,
konstantinos

From: @lyft.com>
Date: Monday, March 30, 2015 at 10:27 AM
To: Konstantinos Papamiltiadis
Cc: Francesca de Quesada Covey , @lyft.com>, Jon Park ,
@lyft.com>, @lyft.com>

Subject: Re: Special API access

Hey Konstantinos,

We actually have lots of dev/test accounts. The ask is that right now they don't seem to be compatible with the whitelisted mutual friends API. They return a strange "Unsupported get request" when used with the mutual friends API while real FB accounts come back fine. It's made us unable to test this particular feature with our test accounts and instead been forced to do our QA with real FB accounts.

Thanks!

Tech Lead - Enterprise

On Fri, Mar 27, 2015 at 5:51 PM, Konstantinos Papamiltiadis wrote:
Hello

I am trying to understand your set up and the ask below a little better before we can come up with a recommendation.

Is the ask her for more dev/test accounts to be created under your production or development apps?

Thanks a lot,
kp

From: @lyft.com>
Date: Friday, March 27, 2015 at 4:52 PM
To: Francesca de Quesada Covey
Cc: @lyft.com>, Jon Park , Konstantinos Papamiltiadis ,
@lyft.com>, @lyft.com>

Subject: Re: Special API access

Hey all,

We've had one other small request come up.

Facebook's API currently provides some great functionality for creating development accounts. This has allowed us to do a significant amount of testing signup flows and various scenarios without having to create fraudulent users. However, when talking with our QA team we've had some issues using the current development accounts with the new mutual friends API which has made testing some of the flows rather difficult. We've been creating additional accounts in the Facebook production context which then of course gets hit because QA is going to behave a little strangely.

Is there some way to enable the API to also work with the development accounts to reduce friction with our QA team? We'd really love to leverage our existing development users since we have a really robust setup with our development accounts that we can't currently leverage with mutual friends.

Tech Lead - Enterprise

On Fri, Mar 20, 2015 at 11:41 AM, Francesca de Quesada Covey wrote:
Wonderful!

Sent from my iPhone

On 20 Mar 2015, at 11:06, @lyft.com> wrote:

Hey guys,

Thanks for checking into this. We've updated how we're using the API and it's now working just fine!
Appreciate the help.

On March 20, 2015 at 7:28:27 AM, Francesca de Quesada Covey wrote:

Hi

I checked into this. No bug. :)

You need to call the API from your server and supply and appsecret_proof param.

From the docs I sent:

"Securing Your Request

If you want to call this API on behalf of two users who are not friends, then you must provide the app secret_proof parameter along with the user access token when making the request. This means the API cannot be called from client code (e.g. from the Javascript SDK or an iOS or Androp app) and must instead be called from your server.

Let me know if you have any questions.

Warmly,

Cesi

From: @lyft.com>

Date: Thursday, March 19, 2015 at 8:56 PM

To: @lyft.com>, Konstantinos Papamiltiadis
. Jon Park .

Cc: Francesca Covey @lyft.com>, .

@lyft.com>

Subject: Re: Special API access

Hi Cesi, KP, Jon

Just checking in on the question from .

Re:ct

On Wed, Mar 18, 2015 at 3:03 PM, @lyft.com> wrote:
Hey guys,

Thanks for the follow up on grandfathering permissions. I wish it was an option, but doesn't sound like there's any flexibility there.

On a more important note, I have an urgent problem we ran into: The API seems to only show mutual friends between User A and User B if both users are actually Facebook friends with each other. The point of the mutual friends feature is to reveal mutual friends to people who don't already know each other, so I'm sure this must be a bug.

Can you check this out as soon as possible? We're starting regression testing on this today and then shipping it to the app store, so I want to make sure this feature works properly. I'm guessing there's just some kind of bug in the API right now.

As an example, when I use the Graph Explorer ([see query](#)) to see mutual friends with my fiancée (we're Facebook friends, of course). I get mutual friends returned in the API: <https://www.evernote.com>

When I do the same query ([see query](#)) on a coworker who I am NOT Facebook friends with, there are no results returned, despite the fact that we share many friends in common:

If you could check this out quickly and let me know, I'd really appreciate it. I have a less-pressing question I'll start a separate thread about to keep things organized.

On March 17, 2015 at 10:27:53 AM, Konstantinos Papamiltiadis wrote:

Just a side note, the All Mutual Friends API will only work for those users that have not x-outed from user_friends permission during the Login flow. There is no specific permission you need to request on top of this from the users.

I hope this helps,
kp

From: Francesca de Quesada Covey
Date: Tuesday, March 17, 2015 at 10:22 AM
To: @lyft.com>, @lyft.com>

Cc: Konstantinos Papamiltiadis

, Jon Park

Subject: Re: Special API access

+ Jon

Hi

We are not grandfathering in anyone for permissions. Since people will need to login using the new version of the API they will ask for the you to share this info. We are seeing very low opt out rates and do think it will impact the use of the service.

Let me know if you have any other questions.

Best,

Cesi

From: @lyft.com>
Date: Tuesday, March 17, 2015 at 5:18 PM
To: @lyft.com>
Cc: Francesca Covey, Konstantinos Papamiltiadis

Subject: Re: Special API access

Hi Cesi

Any followups here on the permissions? I've invited to lunch on Friday as well.

On Mon, Mar 9, 2015 at 7:09 PM, @lyft.com> wrote:
Cesi & KP,

Following up, I had a couple questions for you guys or your team. For context, I'm the PM on the Profiles & Mutual Friends feature and I'm working through the implementation details. Would love your help here.

1) **Full API access.** It looks like we still don't have proper whitelisted permissions for the mutual friends API. Those of us who are admins of our Facebook app can use the API, but when we test it with someone who is just a regular user of our app, we get this message:

"(#10) To use all_mutual_friends on behalf of people who are not admins, developers and testers of your app, your use of this endpoint must be reviewed and approved by Facebook. To submit this feature for review please read our documentation on reviewable features: <https://developers.facebook.com/docs/apps/review>"

2) **Login.** I wasn't totally clear what you meant by "Everyone will be given the opportunity to opt out or give permissions through the new login. All users will be required to use the new login. There's no way to have current users opt in for the feature." Could you explain this a bit more? I was confused by conflating login with the permissions. My understanding is that users, even those who already log in with Facebook, will need to grant an additional permission for Lyft to have

access to mutual friends. Is that "new login" or are you referring to something else?

3) **Grandfathering permissions.** Today, we're getting the default Facebook permissions from all users, which includes the mutual friends feature. We'd like to roll out the Mutual Friends feature on the Lyft platform, with all existing users opted into it. Can we grandfather over our existing user base, so we don't have to re-ask all users for permissions they've already been granting? Not doing this would massively cut the likelihood of seeing whether your driver or fellow passenger has mutual friends, because both sides will have to opt in.

4) **Opt out.** Is there a way for the mutual friends themselves to opt out of being shown as mutual friends in the Lyft app? I couldn't find any such preference, but I figured I might just be missing it. Also, is there a way for users to revoke the mutual friends permission from the Lyft app if they decide they no longer want Lyft to have access to it, without revoking access to the entire app?

Would love to sort this out so we can lock down our launch plan. If any questions are unclear please let me know!

Thanks all

Product Lead | Lyft for Work

On March 6, 2015 at 12:51:19 AM, Francesca de Quesada Covey wrote:

Apologies for the delay I was traveling yesterday. As KP mentioned you should have access to the api now. Please let us know if you have any questions or run into any hiccups. The paperwork is all inclusive of what needs to be done.

You don't need to worry about any contracts for the api. This is a product we are testing and will be rolling out slowly.

This is not a focus for F8. Have you spoken with the events team on how to promote Lyft life for F8? If you want me to speak with them and find out more let me know.

Everyone will be given the opportunity to opt out or give permissions through the new login. All users will be required to use the new login. There's no way to have current users opt in for the feature.

Great on the meeting. What time works? The following week on Monday would also work for us.

Best,

Cesi

Sent from my iPhone

On 4 Mar 2015, at 22:29,
[@lyft.com](mailto:)> wrote:

Hi Cesi,

A few followups:

1. Just checking if the whitelisting is complete. We would like to request whitelist on the prod () and dev () apps.
2. Are there any contracts or other steps besides whitelisting to launch a feature using the APIs?
3. Is this a focus for F8? We are planning to launch the friends feature in 3 weeks and can time it for F8. Any promotion opportunity would be great. We are providing the transportation at F8 and so it might be cool to have the attendees use Lyft Line while in SF and show them mutual friends!
4. In addition to being whitelisted to test the API, we also realised that the Apr 30th change that requires users to "opt in to" the mutual friends permission, will require us to go back to our entire userbase that signed up via FB, to opt in. This can be a sub-par experience if some users do and others don't. Is it possible to have the existing userbase stay opted in?
5. Re. your email about Mar 20th meeting:
Good idea! I can certainly set that up. Depending on the features we want to discuss, I can invite the responsible PMs. Which ones should we plan to discuss. On our priority list right now are:

Mutual friends - ongoing
Events integration - Pending your feedback

Allow users to "share ride status" on messenger/timeline/whatsapp - I think we have all the info for that
Messenger - smart prediction for transportation if passenger is planning to travel.
App Invites - to invite Friends - Waiting for the iOS fix that Brendan talked about.

Please let me know.

Best,

On Tue, Mar 3, 2015 at 10:50 AM,
Konstantinos Papamiltiadis

wrote:

Sure, we will take care of this and let you know when done.

kp

From:

kp@lyft.com>

Date: Tuesday, March 3, 2015 at 6:48 PM

To: Konstantinos Papamiltiadis
, Francesca
de Quesada Covev ·

kp@lyft.com>

Subject: Re: Special API access

Lyft PM

Hi KP, Cesi

Our app ID is . Would love to get whitelisted at your earliest.

Rest

On Tue, Mar 3, 2015 at 1:21 AM,
Konstantinos Papamiltiadis

wrote:

Thanks a lot, lme.

Hello

We have designed the All Mutual Friends API for use cases exactly like yours. We believe surfacing Mutual Friends will increase conversion and add to the feeling of "safety".

Please find attached the spec for this API for your consideration. The API is currently only available to a handful of partners via a whitelist that we will of course be happy to add you to – we will need your App ID for that matter.

Let us know if you have any questions,
kp

From: Ime Archibong
Date: Tuesday, March 3, 2015 at 8:41 AM
To: [@lyft.com](#)>
Cc: John Lagerling
Konstantinos Papamiltiadis
Francesca
de Quesada Covey ·
Subject: Re: Special API access

Hi

Yes, we're deep in MWC craziness. Hope all is well with you.

We have a new beta API that should make this possible for you. Cesi and KP (cc'd) should be able to walk your team through the details & timing.

Ime

Sent from my iPhone

On Mar 2, 2015, at 10:21 PM,
[@lyft.com](#)> wrote:

Hi Ime, John

You are both probably busy at MWC and so sending this note to both of you.

I wanted to reach out to you to understand the possibility of this new feature we are working on. Confidentially, we wanted to show Lyft Line riders their Facebook mutual friends.

Unfortunately, the current social graph APIs only allow us to surface FB friends who are also using Lyft. In our case, knowing mutual friends even if the mutual friends don't use Lyft would be a great ice breaker between the riders. Your response on the possibility that we can work with you to get a special access API and timing of it would be super helpful.

Best,

Director, Business
Development

This transmission may contain information that is privileged, confidential, legally privileged, and/or exempt from disclosure under applicable law. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of the information contained herein (including any reliance thereon) is STRICTLY PROHIBITED. If you received this transmission in error, please immediately contact the sender and

destroy the material in
its entirety, whether in
electronic or hard copy
format. Thank you

EXHIBIT 88

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Konstantinos Papamiltiadis
Sent: Wednesday, April 01, 2015 1:20 PM
To:
Cc:
Subject: Re: FB graph API

2pm on Friday is good for me. If that's fine with you, will you send me an invite?

From: @microsoft.com>
Date: Wednesday, April 1, 2015 at 1:08 PM
To: Konstantinos Papamiltiadis
Cc: @microsoft.com>, @microsoft.com>
Subject: RE: FB graph API

Does 2pm today work? (sorry, I know that's short notice)

From: Konstantinos Papamiltiadis
Sent: 01 April 2015 11:21
To:
Cc:
Subject: Re: FB graph API

Sure, let's do this. Let me know what time works best for you.

kp

From: @microsoft.com>
Date: Wednesday, April 1, 2015 at 11:01 AM
To: Konstantinos Papamiltiadis
Cc: @microsoft.com>
Subject: RE: FB graph API

KP – do you have time today or Friday to have a short call to review where we are please? I have a spreadsheet I can walk you through on our current app status. I'd like to invite along too as she looks after our PSA service, which a number of apps run through.

From: Konstantinos Papamiltiadis
Sent: 30 March 2015 15:14
To:
Subject: Re: FB graph API

Got it! Thanks a lot.

From: @microsoft.com>
Date: Monday, March 30, 2015 at 3:06 PM
To: Konstantinos Papamiltiadis
Subject: RE: FB graph API

It is called *PSA – it is a service that a number of our other apps/services use including the Windows 8.x People Hub. Tomorrow AM I am speaking to the PSA team and the Windows 8.x People Hub team to understand the impact on them.

* I don't have the acronym

From: Konstantinos Papamiltiadis
Sent: 30 March 2015 14:54
To:
Subject: Re: FB graph API

Not a problem. Which app is this btw?

From: @microsoft.com>
Date: Monday, March 30, 2015 at 2:42 PM
To: Konstantinos Papamiltiadis
Subject: RE: FB graph API

Thanks for cc'ing me. I am speaking to this team tomorrow around some of the downstream implications here,

Kind regards,

From: Konstantinos Papamiltiadis
Sent: 30 March 2015 12:05
To:
Cc:
Subject: Re: FB graph API

Dhiren Patel

Hello

This is correct. From 04.30 onwards, even if you call the endpoint to get back fb profile data for user's friend, the API will not return anything.

kp

From: @microsoft.com>
Date: Monday, March 30, 2015 at 12:01 PM
To: Konstantinos Papamiltiadis, @microsoft.com>, Stephane Crozatier, @microsoft.com>, Dhiren Patel, @microsoft.com>
Cc: @microsoft.com>, @microsoft.com>
Subject: RE: FB graph API

Thank you for your prompt response!

For the permissions that are marked as deprecated below, does that mean we can no longer request for that data? E.g. birthday, work history, location, website for the users friends will no longer be available?

friends_birthday	Deprecated
friends_location	Deprecated
friends_work_history	Deprecated
friends_website	Deprecated

From: Konstantinos Papamiltiadis
Sent: Friday, March 27, 2015 6:08 PM
To: Stephane Crozatier; Dhiren Patel
Cc:
Subject: Re: FB graph API

as an fyi

Hello

Could you please give me some context here? What is your App ID and where those permissions are going to be used would be very helpful. The reason I am suggesting having more context is based on the fact that every App Developer that request extended permissions will need to go through Login review now and is important to know how those permissions are in use before you can submit for approval by our review team. Net you may have been requesting user_location before, but if there is no product featured powered by this, then the permission will be rejected. With regards to the specifics:

- 1/ The table below is correct in terms of mapping, but please note that read_stream permission is going to be deprecated and as such non FB branded Apps will not be given access to it.
- 2/ Besides the format of the response changing the other significant change is that me/friends will only return app users (i.e. User that have authorised the app)
- 3/ User_friends permission does not require Login review. However be aware that people can x-out from this. In this case the API will return no results.
- 4/ User don't need to re-auth when an access token that has not expired acquired against v1 is in us – however the API will behave as if this is a V2 access token.

I hope this helps,
kp

From: @microsoft.com>
Date: Friday, March 27, 2015 at 2:18 PM
To: @microsoft.com>, Stephane Crozatier , Dhiren Patel
Cc: @microsoft.com>, Konstantinos Papamiltiadis
Subject: RE: FB graph API

Thanks folks for your responses. Here are a few more questions that we have:

1. For the login review, the table below is the list of permissions that we came up with. The V1 permissions are the ones that we have been using so far and the table translates them to the V2 permissions.
 - i. We just want to confirm if that's the right mapping.
 - ii. For the permissions highlighted in yellow:

Friends_xxx: Are there any other permissions that replace them? Do we need a different approval process for these permissions or is this completely going away?

Offline_access: What is the purpose of this permission? We see it used in our product code however not sure of the exact purpose.

2. With the change in permissions will the data that is returned change? Will we get different/more/less name-value pairs in the responses of the queries we send? If so, can you provide the details of these changes?
3. Do we need to specify any permissions for the request https://graph.facebook.com/v2.0/me/friends/{user_id}? What about user_friends permission, is this required? I don't see this permission in the login review list, how do we get it approved if its needed?
4. You mentioned below that the legacy access tokens remain valid, however if we use these tokens which have the v1 permissions in the post April 30th API's, what's the expected behavior? Will there be an error or a re-auth? Will the return values be different?

Thanks,

V1 permissions	V2 permissions
offline_access	??
read_stream	read_stream
user_birthday	user_birthday
user_location	user_location
user_website	user_website
user_work_history	user_work_history
friends_birthday	Deprecated
friends_location	Deprecated
friends_work_history	Deprecated
friends_website	Deprecated
publish_stream	publish_actions
user_photos	user_photos
friends_photos	Deprecated
friends_videos	Deprecated
user_videos	user_videos

From:

Sent: Thursday, March 19, 2015 5:33 PM

To: Stephane Crozatier; Dhiren Patel

Cc: Konstantinos Papamiltiadis

Subject: RE: FB graph API

Thank you for the prompt response – much appreciated! Will certainly come back with anything else once we've digested the answers.

Thank you

From: Stephane Crozatier
Sent: Thursday, March 19, 2015 5:29 PM
To: Dhiren Patel
Cc: Konstantinos Papamiltiadis
Subject: Re: FB graph API

+ KP fyi

Hi

Comments inline in red.
Let us know if you have additional questions.

Thanks!
-stephane

From: @microsoft.com>
Date: Thursday, March 19, 2015 at 1:15 PM
To: Dhiren Patel , Stephane Crozatier
Cc: @microsoft.com>, @microsoft.com>
Subject: RE: FB graph API

+ Stephane, per OOF message. Thanks!

From:
Sent: Thursday, March 19, 2015 1:11 PM
To: Dhiren Patel
Cc:
Subject: FB graph API

Hi Dhiren,

I'm 's manager and reaching out as she is currently on vacation. Our devs are working to implement upgrading graph API changes from 1.0 to 2.0, a change that we understand is taking effect at the end of next month.

We've accumulated a fair amount of questions which I'll list below. However, if a phone call would make more sense to quickly go through these, we can certainly get that set up.

Thanks a bunch for any help and insights!

1. We would like confirmation that we will be able to simply change graph api by adding versioning with no additional changes to functionality or return type.
 - a. <http://graph.facebook.com/me> to
 - b. <http://graph.facebook.com/v2.0/me>

Yes, adding the version number will force the API to behave in the version specified. If the specified version is deprecated, the call will be defaulted to the next oldest version available. If you do not specify a version number, we'll also default the call to the next oldest version available. This means that calls to <http://graph.facebook.com/me> will automatically switch to v2.0 on April 30. We do recommend that you specify a version number, to better control which API version is being used and try to use the latest version whenever possible.

More information here: <https://developers.facebook.com/docs/apps/versions#versioning>

For Fql.multiquery calls such as <https://api.facebook.com/method/Fql.multiquery>

Do these need to be changed as part of the graph 1.0 deprecation?

FQL does not change but will completely go away after we deprecate Graph API 2.0. We recommend that you use the "batch" Graph API for querying multiple requests: <https://developers.facebook.com/docs/graph-api/making-multiple-requests>

What is the date when this type of api is no longer supported by FB?

Same day as for API v2.0, which is available until Aug 7, 2016.

If they need to be changed, is the correct mapping <https://graph.facebook.com/v2.0/fql?>

Continue to use <https://api.facebook.com/method/fql.multiquery>

i. If this is the case the return data structures are different (XML vs graph). Can we get details about the response structure?

There are fields we see in existing request and response that we have been unable to find any documentation about (for example) `is_pushable`.

Is there documentation on this?

We do not provide general documentations on private APIs, but i'm happy to provide details on a case-by-case basis. "`is_pushable`" is a boolean value telling you whether or not the user is capable of receiving push notifications to any mobile device.

What would be the FB behavior if we continue to pass this parameter, but FB no longer supports it?

The behavior would be different depending on the type of query. If you try to fetch an invalid field, we would return an error code 100, with the message "(#100) Tried accessing nonexistent field (<fieldname>) on nude type (<nodetype>)". It's unlikely that we would deprecate a private API without letting you know in advance. We generally only allow specific developers to use private APIs and we monitor their usage. For example, we know that you are making 8.5M requests/day for this specific field on average.

Additional fields requiring clarification

`Publish_stream`

This permission is no longer available, please use 'publish_actions' instead.

`Publish action`

Extended user permission required for publishing on their behalf: https://developers.facebook.com/docs/facebook-login/permissions/v2.0#reference-publish_actions

`Offline access`

This permission is usually automatically granted when using APIs that rely on it. You shouldn't be using it, but i may need to understand your specific use-case to provide a definitive answer. Can i ask which product this is for?

Is there a testing server available which is already set up in the post 4/30/15 configuration so that we can confirm the validity of our changes?

The online [developers.facebook.com graph api explorer](https://developers.facebook.com/graph-api-explorer) is insufficient for running testcases.

We've been live since Apr 30, 2014. You can force API v2.0 calls by specifying the version number to the call (per your question above).

You can also force test users into the post 4/30 configuration and test end-to-end scenarios:

- Go to https://developers.facebook.com/apps/<your_app_id>/roles/test-users/
- Click "Edit" on specific test user

- Select "Override the API version in Graph API requests for this test user"
- Enable "Override" and select the API version you want to target

I can also enroll specific 'real' users into the post 4/30 configuration if you think that would simplify testing but would strongly recommend to use test users.

Need clarification on changes required for authentication. Are there changes required for obtaining the access token?

We currently use https://graph.facebook.com/oauth/access_token are there any changes beyond updating the url https://graph.facebook.com/v2.0/oauth/access_token required?

Any changes to parameters, permissions

No change to access tokens, or authentication parameters. However, you may want to consider the following:

- Login review. All apps must to go through "Login review" to be able to continue to use specific permissions post 4/30: <https://developers.facebook.com/docs/apps/review/login>. Because your case is special we will have to work together to get you approved (but you'll still have to submit your app).
- App-scoped User IDs. People authenticating your app for the first time will be issued App-scoped User IDs with API v2.0. This means that IDs for the same user will be different between apps.

Will the response structure change?

No.

Is there documentation of private Graph API, especially /me/importcontact. How does it work? What's the update in v2.2?

This is to upload contacts to Facebook. I'll see if we have a doc for you, otherwise i can provide more information. Is this for Office365?

This endpoint should not be affected by the Graph API v1.0 deprecation in any way - you're sending us a list of contacts and we're returning the number of contacts processed.

On May 1st, will the existing valid user token in user's mailbox become invalid since our app retrieved the token using v1.0 API? Do users who use our app need to retrieve tokens again? What error code will the API return if there is any?

Access tokens remain valid and are portable across API versions.

EXHIBIT 89

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Konstantinos Papamiltiadis

Sent: Wednesday, April 01, 2015 5:28 PM

To: Jon Park

Subject: Re: API upgrade questions

Attachments: image001.jpg; image002.jpg; image003.jpg; image004.jpg; image005.jpg; image006.jpg

In the meantime, if they can create a unique URL for the object that would allow them to somehow uniquely identify the user. So here is the scenario

Scenario: KP bought tickets for Jon, Patrick and Chris.

Sender Flow: KP tags Jon, Patrick and Chris and they are now notified on Facebook when the activity is posted there.

Receiver flow: Jon clicks on the URL and ends up back on TM. TM knows the name of friends tagged on this post based on the URL posted, and asks Jon if he is Jon/Chris or Patrick. Jon can then say, I am Jon, login or not and claim the seat.

Makes sense?

From: Jon Park
Date: Wednesday, April 1, 2015 at 5:22 PM
To: Konstantinos Papamiltiadis
Subject: Re: API upgrade questions

Oh this is amazing. Thank you!

On Apr 1, 2015, at 5:18 PM, Konstantinos Papamiltiadis wrote:

I talked to Eddie... So here is how I would have gone back to TM.

Interesting use case, we would like to consider this use case in the near future, based most probably on Opaque IDs that would let you map a non-app friend back to a seat/event, etc without disclosing or sharing any non-app friend data.

That said, we don't have the time to dig deep into this use case before the end of April and we would recommend that you factor the existing API restrictions into your migration efforts and then discuss about how we can support this use case once the migration is complete.

Feel free to wordsmith this as you see relevant, but certainly let them know that they are not going to be whitelisted.

Best,
kp

From: Jon Park
Date: Wednesday, April 1, 2015 at 3:24 PM
To: Konstantinos Papamiltiadis
Subject: FW: API upgrade questions

Hey KP -

Still talking to Ticketmaster about the seat mapping UI :)

Based on the examples the listed below, is there use case provide enough of a case to whitelist them?

-JP

From: @LiveNation.com>
Date: Wednesday, April 1, 2015 at 2:38 PM
To: Jon Park @Ticketmaster.com>
Subject: RE: API upgrade questions

Hello Jon,
Thank you very much for support.
Here is the [page with interactive seat map](#), where each marker represents Facebook user by ID.

Below you can see common use cases:

1. When I'm going to attend the concert, I want to know, if my friends on Facebook are also going.
On the interactive seat map there is a filter, that shows seats of all Facebook users or only the seats of my friends.
Every seat on the map is associated with Facebook user id.
After upgrade we'll be unable to see all friends, only app-scoped friends.
2. When I want to tag my friend on the seat map,
I chose a friend from the full list of friends, then put a marker on the seat.
For this we need friend's id.
3. When a Facebook user opens our website, if someone had tagged him on the seat (his id was found), then we ask him to confirm/remove tag.

If you allow, I would like to ask your assistance with access_token API.
I hope we will find the way to tag all friends.

Thanks.

From: Jon Park
Sent: Wednesday, April 01, 2015 3:05 AM
To:
Subject: Re: API upgrade questions

Hi

Thanks for your email. Can you also provide more details on why you need to store user ID on the interactive seat map? Getting as much context here would help us understand this use case and determine next steps.

Thanks,
Jon

From: @LiveNation.com>
Date: Tuesday, March 31, 2015 at 12:50 PM
To: Jon Park @Ticketmaster.com>
Subject: RE: API upgrade questions

Hello Jon,
On interactive seat map we store user ID, associated with a seat and we need only ID.

Please take a look at response that we are getting from taggable_friends:
It returns access_token, instead of ID.

```
{  
  "id": "AaKJ-QN8Oiy3m-  
2DHeVnc5oQZFnx_V0ptUF8XFEstr3EcS1LltvAx0_xptve3DWc_vl1zP0s4RhVMOTk1EqDvzCHMkEqFRMIku  
XtyXe5d901-Q",  
  "name": "Somename someSurname"  
}
```

Is it possible to get ID?

```
{  
  "name": "Somename SomeSurname",  
  "id": "  
}
```

I suppose, we cannot get ID, because our test apps did not pass review of extended permissions
"user_friends".

Facebook app ID for example:

Thank you very much for help!

From: Jon Park
Sent: Tuesday, March 31, 2015 12:50 AM
To:
Subject: Re: API upgrade questions

Hi

Can you elaborate on how Ticketmaster's tagging system is different from Facebook tagging, and why friends' FBIDs are required to be stored in your DB to enable this feature? While I understand that there may be some complexity, it would help us understand the challenges you may be facing with the current integration using the taggable friends API.

However to reiterate, since the taggable friends API was created to prevent unnecessary exposure of user data, by principle we wouldn't expose friends FBID data via another endpoint and we should look into an alternative solution.

Thanks,
Jon

From: @LiveNation.com>
Date: Monday, March 30, 2015 at 11:54 AM
To: @Ticketmaster.com>, Jon Park
Subject: RE: API upgrade questions

Hello and Jon,
Thank you very much for help.
This is a bit confusing, probably, but we have our custom system of "tagging", different from Facebook tagging. We "tag" friends on our interactive seat map.
We store friends ID in our DB, and now we cannot store access_token because it cannot be compared with other user_ids.
Is there any other end point, that allows to get all friends ID, not only those, that have used this particular Facebook application?

Thanks.

From:
Sent: Monday, March 30, 2015 9:42 PM
To: Jon Park;
Subject: RE: API upgrade questions

who is the developer working on the API upgrade.

, can you please explain why our current implementation needs access to non-app friend IDs and why access tokens won't work?

From: Jon Park
Sent: Monday, March 30, 2015 11:37 AM
To:
Subject: Re: API upgrade questions

Hey

I apologize for my delay in response. Currently in order to access non-app friends, we issue access tokens (per your dev's response), which is by design to protect our users' data.

Can you provide more clarity on why your current implementation needs access to non-app friend ID's and why access tokens won't work?

Thanks,
Jon

From: @Ticketmaster.com>
Date: Thursday, March 26, 2015 at 11:18 AM
To: Jon Park
Subject: RE: API upgrade questions

Hi Jon,

Our dev team is asking how to get friends' IDs that have not accepted this app? Right now, they can only get an access_token which doesn't work for us. Any ideas on how to resolve this?

Here is the response from Dev in case this is helpful:

We are still unable to get friends id, taggable_friends doesn't return id, it returns only access_token, which we cannot store in our db.
<http://stackoverflow.com/>

From the information about taggable friends api
<https://developers.facebook.com/docs/apps/upgrading:>

"New endpoints

/me/taggable_friends: The new Taggable Friends API. In the past if you wanted to tag friends in a post, you had to get their IDs, names and then pass that information into the post to tag them. With this new API you get a set of tokens that identify friends along with their names and pictures. Using this, it's easy to build a custom tagging interface from your app. If you use this feature, your app will have to go through review before it can tag people in posts or photos. Please note that the tokens returned through this API are not the same as the IDs returned via /me/friends."

Also we found a petition <https://www.change.org/>

This is all that we have for now.
Looking forward for an answer from facebook team.

Thanks!

From: Jon Park
Sent: Tuesday, March 24, 2015 11:13 AM
To: _____
Subject: Re: API upgrade questions

Hi

1. Yes that's correct
2. user_friends is a part of the basic permissions (what you've taken as a screenshot) – as long as users accept the basic permissions, they won't need to accept any additional perms.

-JP

From: _____ <_____@Ticketmaster.com>
Date: Tuesday, March 24, 2015 at 9:24 AM
To: Jon Park
Subject: RE: API upgrade questions

Thanks, Jon. Couple of follow up questions to make sure I'm understanding correctly.

1. If a user gives permissions to use user_friends, they would be able to tag friends that have not yet accepted the TM app permissions, correct?

2. Today we ask for access to friend list (see attached). Would current app users still need to accept the user_friends permission?

Thanks!

From: Jon Park
Sent: Tuesday, March 24, 2015 9:10 AM
To:
Subject: Re: API upgrade questions

[-Moving to BCC]

Hi

Thanks for your email. Please see my responses below:

1) You could use the Taggable friends API for this use case, but the user will need to give permission to use user_friends. Our recommendation is for you to request this permission in context again if you want to enable this feature for people that have declined user_friends earlier. Since <5% of the users decline access to this permission, re-requesting user_friends permission shouldn't be a concern.

2) I'm confirming that FB IDs acquired before their migration won't be updated to App Scoped IDs.

Please let me know if you have any questions!

Jon

From: @Ticketmaster.com>
Date: Monday, March 23, 2015 at 11:31 AM
To: Jon Park
Cc: Jackie Chang
Subject: API upgrade questions

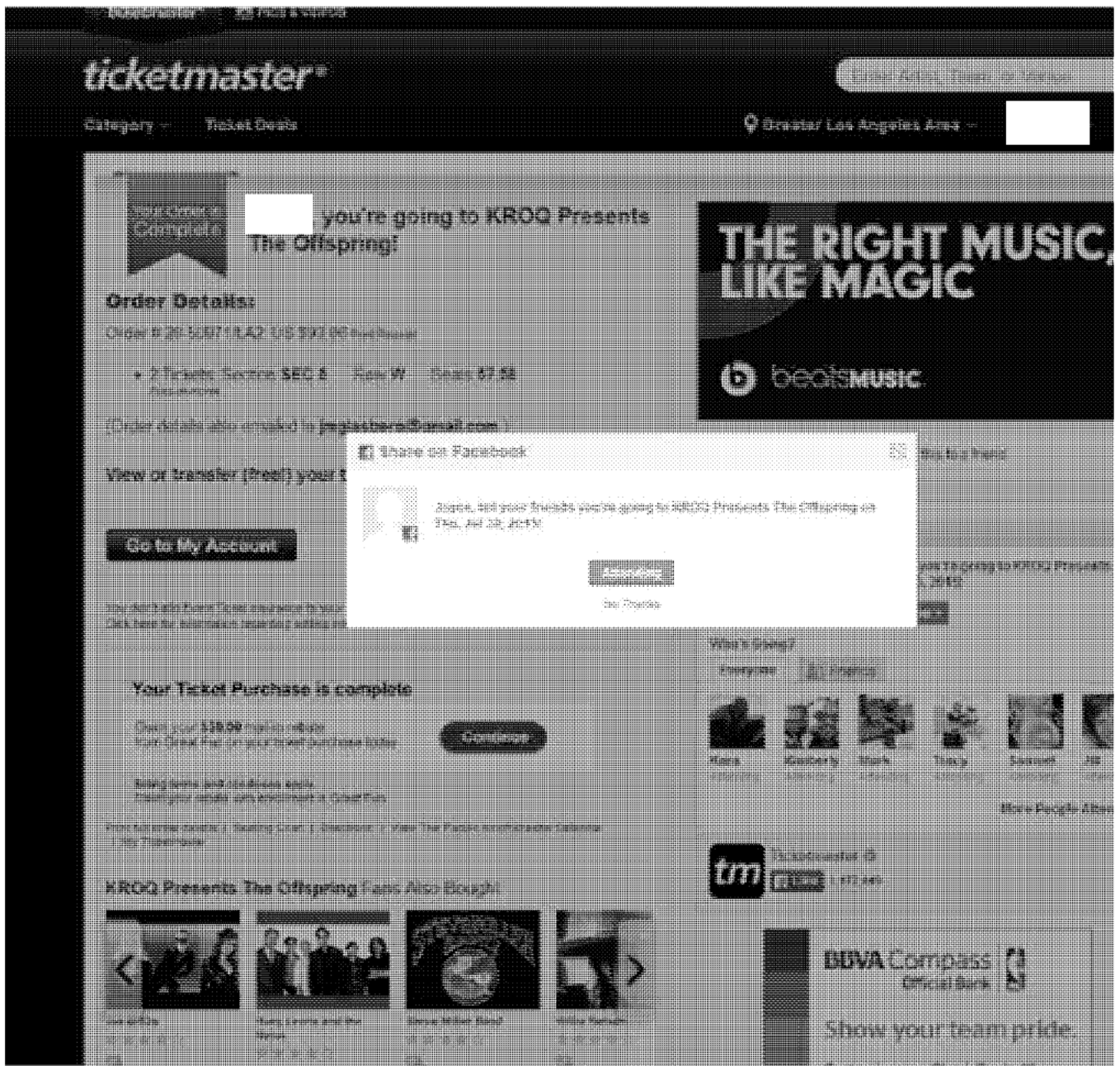
Hi Jon,

We're in the process of upgrading all of our Ticketmaster apps to Graph API v2.2 and our dev team came across some possible limitations. Here are the questions they have asked me to reach out about.

1. We are trying to retrieve friends IDs who have not accepted user_friends permissions. The reason we need to do this is because we have functionality that allows users to tag FB friends in seats once they have purchased tickets. Limiting to only friends who have accepted the app is not a good user experience for the ticket purchaser. Is there a way to get all friends via taggable_friends or any other endpoint?
2. We store user_id in our database. Can you confirm that a user id that has logged in with this app before we upgraded to v2.2 will not change to the app_scoped_user_id and we won't lose our information?

I'm also attaching screenshots of our tagging flow so that you can better understand what I'm asking in #1.

Once I have purchased tickets and land on our purchase confirmation page, I am prompted to RSVP to the event:



After clicking Attending, I can tag any of my Facebook friends (regardless of whether they have accepted the Ticketmaster App permissions):

Your Order is Complete

you're going to KROQ Presents

The Offspring

Tag who's going!

Order Details:

Order # 28-60071/LA2 USD \$93.00

- 2 Tickets: Section SEC 6

(Order details also emailed to you)

View or transfer (free!) your tickets

Go to My Account

You didn't add Event Ticket Insurance to your order. Click here for information regarding additional ticket options.

Your Ticket Purchase is

Claim your \$30.00 mail-in rebate from Great Fun on your ticket purchase.

Eligible events and conditions apply. Claim your rebate with enrollment in Great Fun.

Print full order details | Seating Chart | My Tickets

Tag up to 2 people!

View: All Selected (1)

tm

Everyone

Post Skip

KROQ Presents The Offspring Fans Also Bought



New 4-02a



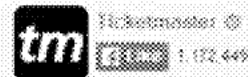
Hugoboss and the Bank



Dave Miller Band

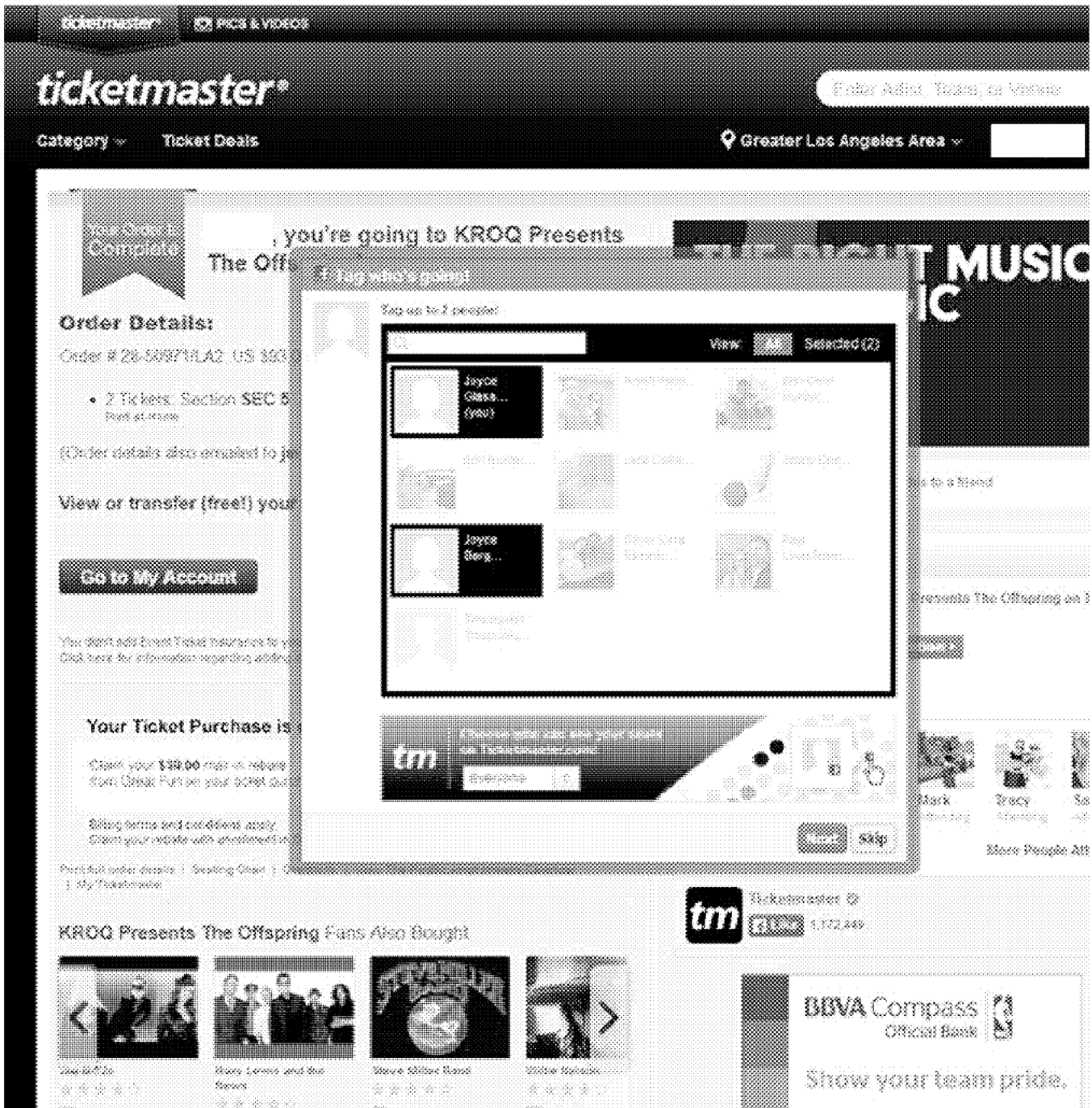


Wilder Nelson

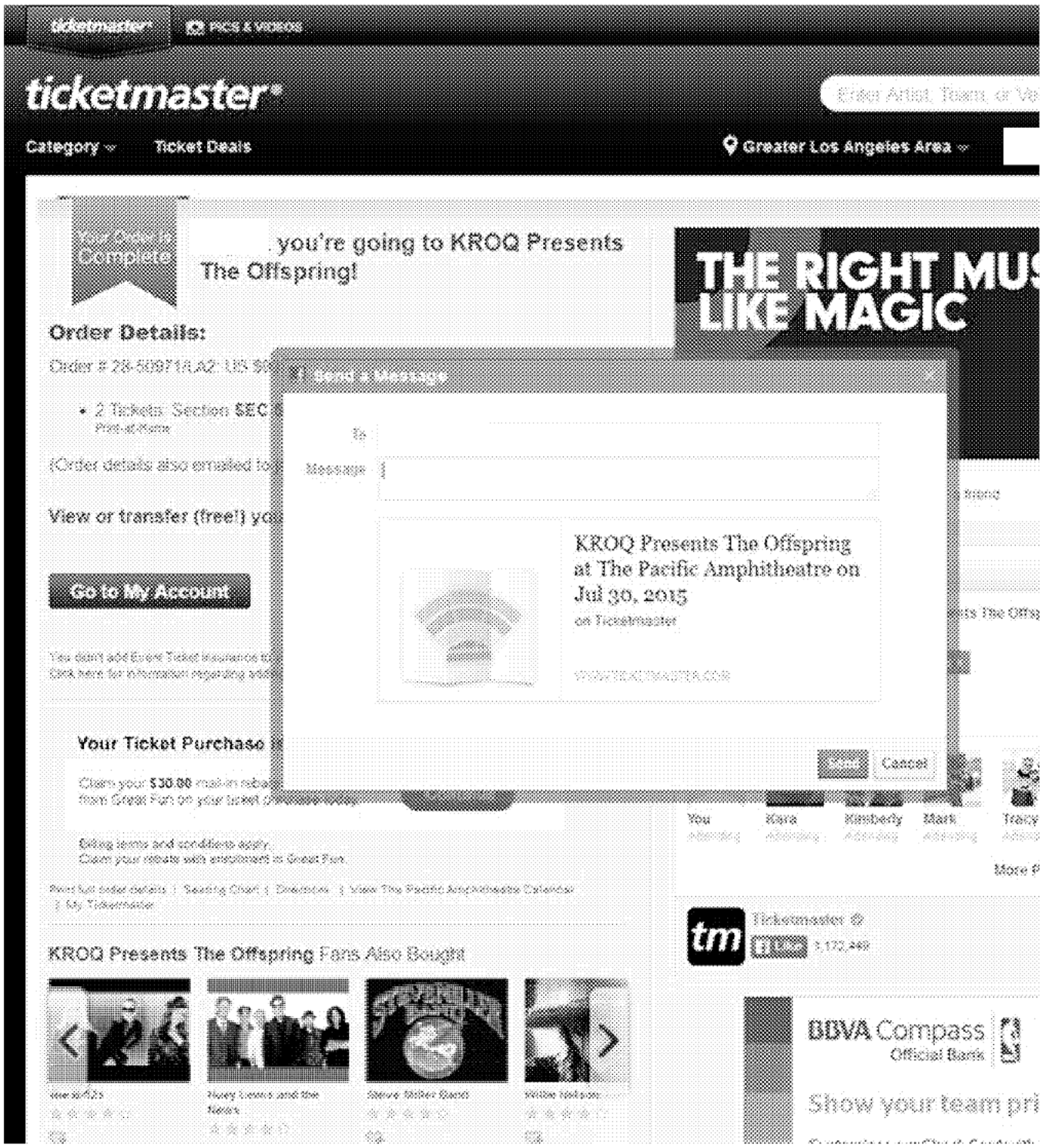


BDVA Compass Official Bank

Show your team pride



I'm then prompted to send a message to my friend:



I can then Share this RSVP on Facebook;

Your Order is Complete

you're going to KROQ Presents The Offspring!



Order Details:

Order # 28-509711/A2: US \$33.00

2 Tickets: Section SEC B Row W Seats 57,58

(Order details also emailed to)

View or transfer (free!) your

Go to My Account

You don't add Event Tickets insurance to

Your Ticket Purchase

Claim your \$30.00 mail-in rebate from Great Fun on your ticket purchase today

Eligible items and conditions apply. Claim your rebate with enrollment in Great Fun.

Print full order details | Seating Chart | Directions | View The Pacific Northwest Calendar | My Ticketmaster

KROQ Presents The Offspring Fans Also Bought



Post to Facebook

Do something about this...

Check out my seats for KROQ Presents The Offspring

Go to Ticketmaster - Buy Tickets

Continue

- You - Accepting
- Nana - Accepting
- Kimberly - Accepting
- Stark - Accepting
- Traci - Accepting

tm Ticketmaster 1,172,449

BBVA Compass Official Bank

This is what the confirmation page looks like – notice we then show you friends who are also attending the event as well as “Everyone” who has RSVPed.

ticketmaster® PAGES & VIDEOS

ticketmaster® Enter Artist, Team, or Venue

Category Ticket Deals Greater Los Angeles Area

Order Complete you're going to KROQ Presents The Offspring!

Order Details:
 Order # 28-80871(LA2) US \$93.08 plus taxes
 • 2 Tickets: Section SEC 5 Row W Seats: [redacted]
 (Order details also emailed to [redacted])

View or transfer (free!) your tickets in My Account.

Go to My Account

You don't add Event Ticket Insurance to your order, but it may not be too late to protect your purchase! Click here for information regarding adding insurance to your Ticketmaster order.

Your Ticket Purchase is complete
 Claim your \$30.00 mail-in rebate from Great Fan on your ticket purchase today. **Continue**

Bring terms and conditions apply. Claim your rebate with enrollment in Great Fan.

View full order details | Seating Chart | Conditions | View The Offspring Artist/Event Details | My Ticketmaster

KROQ Presents: The Offspring Fans Also Bought

- View-It's
- Three Lemis and the News
- Steve Miller Band
- White Falcon

THE RIGHT MUSIC LIKE MAGIC
 beatsMUSIC

Twitter Email this to a friend

Share on Facebook

You are attending KROQ Presents: The Offspring on Jul 30, 2015. **Claim Your Insurance!**

Who's Going?
 Everyone Friends

You attending Kara attending Kimberly attending Mark attending Tracy attending

More People &

tm Ticketmaster 1,172,469

BBVA Compass Official Bank

Show your team pride.

Thanks,

Product Manager, eCommerce
 Ticketmaster

<image005.jpg>

<image006.jpg>

EXHIBIT 90

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: @godaddy.com>
Sent: Wednesday, April 15, 2015 12:31 PM
To: Konstantinos Papamiltiadis
Subject: Re: Connecting

Hi KP,

Apologies for the delay. Attached is the sample file.

Thanks,

Sr. Director, Corporate & Business Development
GoDaddy

From: Konstantinos Papamiltiadis
Date: Tuesday, April 14, 2015 10:22 AM
To: @godaddy.com>
Subject: Re: Connecting

Hello

Any updates on this one?

Thanks a lot,
kp

From: @godaddy.com>
Date: Thursday, April 2, 2015 at 11:26 AM
To: Konstantinos Papamiltiadis
Subject: Re: Connecting

Hey KP,

I'll ask the team for a sample. Stay tuned...

Cheers,

From: Konstantinos Papamiltiadis
Date: Thursday, April 2, 2015 8:03 AM
To: @godaddy.com>
Subject: Re: Connecting

Hello

The team got back to me to suggest that your coverage is really good and if possible, we would like to get a sample of your raw data for restaurants in SF.

Could you please help us get access to this sample?

Thanks a lot,
kp

From: [@godaddy.com](mailto:)>
Date: Wednesday, April 1, 2015 at 9:02 PM
To: Konstantinos Papamiltiadis
Subject: Re: Connecting

Hey KP,

Apologies, try this one.

Thanks!

Sr. Director, Corporate & Business Development
GoDaddy

From: Konstantinos Papamiltiadis
Date: Wednesday, April 1, 2015 9:00 PM
To: [@godaddy.com](mailto:)>
Subject: Re: Connecting

Hello

I can't see the attachment. Do you mind sharing again?

Thanks a lot and congrats on the IPO!!

kp

On Apr 1, 2015, at 8:51 PM, | [@godaddy.com](mailto:)> wrote:

Hi KP,

Please find attached the filled out excel sheet. It contains restaurant data for 3 cities, San Francisco, New York and London, with venues categorized by publishable venues, open table venues and valid venues.

Let us know any questions.

Thanks,

Sr. Director, Corporate & Business Development
GoDaddy

From: Konstantinos Papamiltiadis
Date: Tuesday, March 31, 2015 1:26 PM
To: [@godaddy.com](mailto:)>
Subject: Re: Connecting

Yes, of course congrats!!!

Besides the spreadsheet, our eng team would love to have a sample of your raw data. Happy to swing bye and say hi when you are here on Friday.

Thanks again and good luck,
kp

From: [@godaddy.com](mailto:)>
Date: Tuesday, March 31, 2015 at 1:20 PM
To: Konstantinos Papamiltiadis
Subject: Re: Connecting

Hey KP,

As you may have seen in the press, there has been a lot going on here so, apologies for the delay.

I do have an engineer working on the spreadsheet you supplied and should have it to you by end of week. Also, I'll be down at FB HQ on Friday meeting with Neil and team.

Thanks,

Sr. Director, Corporate & Business Development
GoDaddy

From: Konstantinos Papamiltiadis
Date: Tuesday, March 31, 2015 1:15 PM
To: [@godaddy.com](mailto:)>
Subject: Re: Connecting

Hello

While I am trying to establish how a partnership involving 's team may evolve, is there any chance you can provide us with a sample of your data?

As per our call it would be great to establish your content is indeed as suitable for our needs as we think it is, prior to going deeper into a conversation involving other teams/functions.

Maybe all restaurants with their menus from SF would be a good starting point.

Thoughts?

kp

From: @godaddy.com>
Date: Monday, March 16, 2015 at 8:19 PM
To: Konstantinos Papamiltiadis
Subject: Re: Connecting

Hey KP,

His name is . No worries.

Cheers,

(Blame any spelling errors on Siri - Sent from my iPhone.)

On Mar 16, 2015, at 6:25 PM, Konstantinos Papamiltiadis wrote:

Hello

Could you please remind me of the name of the person you are talking to on the product side for the Pages Creation API access?

Thanks a lot,
kp

From: @godaddy.com>
Date: Monday, March 9, 2015 at 11:23 AM
To: Konstantinos Papamiltiadis
Subject: Re: Connecting

Sure, 2:30 works. Can you send over an invite with the best number to reach you on?

Thanks,

Sr. Director, Business Development
GoDaddy

From: Konstantinos Papamiltiadis
Date: Monday, March 9, 2015 11:19 AM
To: @godaddy.com>
Subject: Re: Connecting

Hello

Unfortunately, none of the below works for me. How about 2:30pm?

Best,
konstantinos

From: @godaddy.com>
Date: Monday, March 9, 2015 at 5:29 PM
To: Konstantinos Papamiltiadis
Subject: Re: Connecting

Hi Konstantinos,

No worries – Welcome to California!

Wednesday looks good for me. How does 10am, 11am, or 2pm PST work for a call?

Cheers,

Sr. Director, Business Development
GoDaddy

From: Konstantinos Papamiltiadis
Date: Sunday, March 8, 2015 1:56 PM
To: @godaddy.com>
Subject: Re: Connecting

Hello

Apologies for the late response! I was moving to California from London last week and certain things, like responding to this, were lost...

How is your schedule this week? Happy to make time around your availability.

Let me know,
kp

From: @godaddy.com>
Date: Tuesday, February 24, 2015 at 10:24 PM
To: Konstantinos Papamiltiadis
Subject: Re: Connecting

Hi Konstantinos,

Thanks for reaching out and providing additional information.

Would be good to have a call around this before filling out all this information just to give an overview of how we view the Locu data today post acquisition by GoDaddy and in light of the new product we launched, Get Found.

Here is some additional background --
> <http://boss.blogs.nytimes.com>,

How does a call work on Friday at 10am PST?

Thanks.

Sr. Director, Business Development
GoDaddy

From: Konstantinos Papamiltiadis
Date: Tuesday, February 24, 2015 9:01 AM
To: [@godaddy.com](mailto:)>
Subject: Connecting

Hello

Moving our convo to our business email addresses.

As a leading provider of information on services and places related to the food/restaurant industry, we would like to have a conversation with you about licensing your data. Restaurants, bars and night clubs are places where most people on Facebook check-in and is really important for us to ensure we have good coverage.

Assuming this is of interest to you, we would like to confirm the coverage and the richness of your data for London, NYC and San Francisco. Could you please complete the attached spreadsheet for each of the named cities? In addition it would be very helpful, if you could also give us access to sample data (all restaurants in a neighborhood).

Finally, we would like to understand the working model for licensing your data, so any information you can provide here would be very helpful.

Looking forward to working with you,
kp

EXHIBIT 91

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Konstantinos Papamiltiadis
Sent: Wednesday, March 18, 2015 8:32 AM
To:
Cc: Francesca de Quesada Covey; Jon Park
Subject: Re: Question for F8

As promised, please find attached the docs for Hashed Friends API that can be used for social ranking.

Let us know if this would be of interest for you, as we will need to sign an agreement that would allow you access to this API.

In the meantime, let's please defer any convo on the API that could return signals about the authenticity of the account post f8.

Any questions, let us know.
kp

From: @airbnb.com>
Date: Tuesday, March 17, 2015 at 9:21 PM
To: Konstantinos Papamiltiadis
Cc: Francesca de Quesada Covey @airbnb.com>, Jon Park @airbnb.com>
Subject: Re: Question for F8

Hi KP,

Sure let's sync up at 8am PDT. What's a good phone number to call you?

On Tue, Mar 17, 2015 at 9:14 PM, Konstantinos Papamiltiadis wrote:
Hello ,

Can we synch up at 8am? I will be at a training from 9-6 both tomorrow and Thursday and Francesca is going to be on a plane.

Thanks a lot,
kp

From: @airbnb.com>
Date: Tuesday, March 17, 2015 at 10:39 AM
To: Francesca de Quesada Covey
Cc: Konstantinos Papamiltiadis @airbnb.com>, Jon Park @airbnb.com>
Subject: Re: Question for F8

Hi Francesca,

Would tomorrow (March 18th) at 10am PDT work for you?

On Tue, Mar 17, 2015 at 8:51 AM, Francesca de Quesada Covey wrote:
Hi -

Would it be possible to setup a call today or tomorrow to discuss the different options?

Best,

Cesi

From: @airbnb.com>
Date: Tuesday, March 17, 2015 at 5:09 AM
To: Konstantinos Papamiltiadis
Cc: @airbnb.com>, Francesca Covey
@airbnb.com>

Subject: Re: Question for F8

Thanks KP,

Just trying to understand this better from the technical side of things.

If I understand correctly under the covers app scoped user ids can be still connected to actual FB user ids. App scoped user ids are there to prevent leaking user ids from one app to another. However, FB still can figure out what actual user id corresponds to an app scoped id (and figure out user profile creation date).

Is my understanding wrong? Or is it technically infeasible or otherwise not considered as a option? If so why?

On Mon, Mar 16, 2015 at 9:38 PM, Konstantinos Papamiltiadis wrote:
Understood, that's why we are trying to work out a solution that would work for others and provide strong signal of authenticity.

We will keep you posted, . There is appetite certainly to do something here, I hope after F8 we will have a few meaningful updates to share.

Cheers,
kp

From: @airbnb.com>
Date: Monday, March 16, 2015 at 9:03 PM
To: Konstantinos Papamiltiadis
Cc: Francesca de Quesada Covey @airbnb.com>, @airbnb.com>
@airbnb.com>

Subject: Re: Question for F8

Hi Kp,

Yes, that is correct. As our hosts invite guests to stay at their home, building trust is of utmost importance to us. A central piece in this context is our product "Verified Identity", where users verify a piece of their online and offline identity.

A Facebook profile without a creation date is losing one of the best signals to evaluate the authenticity. While the number of friends is definitely one of the signals we evaluate, it's much easier to create for a fake account with a profile picture of a pretty girl or so.

Best regards,

On Mon, Mar 16, 2015 at 8:32 PM, Konstantinos Papamiltiadis
Hello

wrote:

I suspect you use the creation date as a signal for authenticity of the account; please correct me if I am wrong.

We are aware this is a useful signal for a few of our partners and are working on getting a solution in place that will address this.

However, until then, the only signal that you can use that comes from free is the number of friends a user has. The reason creation day can't be used as a signal any more is related to the fact we use app scoped ID that are not generated randomly and don't reflect the date the account was created.

Best,
kp

From: Francesca de Quesada Covey

Date: Monday, March 16, 2015 at 8:09 PM

To: [@airbnb.com](mailto:)>

Cc: [@airbnb.com](mailto:)> ,

[@airbnb.com](mailto:)>, Konstantinos

Papamiltiadis

Subject: Re: Question for F8

+ KP to help answer any question ASAP today pacific time if needed; if not will look into this in am gmt.

Thanks!

Sent from my iPhone

On 16 Mar 2015, at 20:23,

[@airbnb.com](mailto:)> wrote:

Hi Francesca,

This is really unfortunate to hear, as it's probably the most successful signal right now to verify a Facebook profile.

Also, the mutual friends API doesn't seem to be fulfilling our needs. Imagine we want to surface hosts in London, that you have a social connection with. We are obviously not able to query this API endpoint for every host in London with your access token individually.

I would assume this is a common scenario for other companies as well. I remember, when I worked at Bing, we had the same scenario as well. How do other companies solve this?

Best regards,

On Mon, Mar 16, 2015 at 11:22 AM, Francesca de Quesada Covey
Hi

wrote:

Hope you had a lovely weekend!

I've spoken with the team and unfortunately there's no way to request the creation date for a profile. The reason we are not allowing this is in order to protect our users. I understood from our conversation why and how you use it. I'm trying to figure out the best work around. Will get back to you ASAP>

I've included the information on the mutual friends api below. This will be important to roll out as your currently ask for this permission and it will not work with the new version of login how you are doing it. I've gone ahead and proactively whitelisted your app.

Please let me know if you have any questions.

Best,

Cesi

1/ API

Endpoint: [graph.facebook.com/v2.2/USER_B_ID?fields=name,id,context.fields\(all_mutual_friends\)&access_token=USER_A_TOKEN](https://graph.facebook.com/v2.2/USER_B_ID?fields=name,id,context.fields(all_mutual_friends)&access_token=USER_A_TOKEN) – where both user A and B must be app users

Note that this API is available in v2.0, v2.1 and v2.2, but not v1.0. By default it returns a total count, and up to 5 mutual friends. If you want more mutual friends, you can specify a limit param:

...?fields=name,id,context.fields(all_mutual_friends.limit(200))

2/ Sample response:

NOTE: we only return the ID field if the mutual friend is an app user. We return a token in all cases. The token will eventually be usable to redirect the user to the FB profile for that person i.e.

www.facebook.com/<TOKEN> but that's not done yet.

```
{
  "name": "                ",
  "id": "5943",
  "context": {
    "all_mutual_friends": {
      "data": [
        {
          "name": "                ",
          "token":
"ASl4nbpfmyXr44MjWyP8Ge1_RmMlUjACrQ0MH758lCzqG9DC25kophaa6jvUVZEYqpkFXU9kMMcTXy-nxc-N8acQ",
          "picture": {
            "data": {
              "is_silhouette": false,
              "url": "https://fbcdn-profile-a.akamaihd.net/hprofile-ak-xaf1/v/t1.0-
1/c0.5.50.50/p50x50/1928902_665659915031_7800815_n.jpg?oh=cf5d0386a572d440c75fc7da70b2dbda&
oe=5539B823&__gda__=1428955376_232d7d0dd9758afadcbaa4936f949760"
            }
          }
        },
        {
          "id": "9074",
          "name": "Mike Vernal",
          "token":
"ASnSiFqA0ZaebCx4Jok5bin237ez66NvcFeqKe4Ze24m4PTNJITfcA9_2FHZ2uXoupOxMvAFTRpStcmeLugRjvhe",
          "picture": {
            "data": {
              "is_silhouette": false,
              "url": "https://fbcdn-profile-a.akamaihd.net/hprofile-ak-xfp1/v/t1.0-
1/p50x50/10245425_10101720899420561_4711891193667829994_n.jpg?oh=0659432782fe60c8ddb7ff1e23
685d8d&oe=55337F5A&__gda__=1433214769_d0fec12c86fd53d5986f83fb1a344750"
            }
          }
        },
        {
          "id": "11230",
          "name": "                "
        }
      ]
    }
  }
}
```

```

    "token": "ASmfs9WPcAYUcSZkZYI9d4Ovo5ZiN1lA7-
Uazvxq55Cpys971SdzpLvKe2kkBqaAdRU_xMUtBtORMLITOMaT9So";
    "picture": {
      "data": {
        "is_silhouette": false;
        "url": "https://fbcdn-profile-a.akamaihd.net/hprofile-ak-xaf1/v/t1.0-
1/c8.0.50.50/p50x50/1959792_10101273193691431_1742964517_n.jpg?oh=bd9cdef942497b46d90d54d89
8f865cd&oe=5537CE18&__gda__=1430135507_e1ee33a42ffb8c50f9f3191a7f4525bc"
      }
    },
    {
      "id": "11674";
      "name": " ";
      "token": "
ASn9N1X_vVUeUr09CT30eUJSufq3S3_M1s1GdsdaTzyPaCCTgeKBSDFerRtCKhlCZQBJfilXftAOE7smi5ddwVp6";
      "picture": {
        "data": {
          "is_silhouette": false;
          "url": "https://fbcdn-profile-a.akamaihd.net/hprofile-ak-xpa1/v/t1.0-
1/p50x50/10603543_10101773261092351_8075915437065151803_n.jpg?oh=8d41771ebe86c501feb97e56a6
73d58b&oe=556B842E&__gda__=1429703571_c79cc0934c3d703c44fe77b92e9427a6"
        }
      }
    },
    {
      "id": "15150";
      "name": " ";
      "token": "ASnm0XryCoUFSd-0YxEXSZfQMw52Jxf_sJfu2ZIrqIDhTOQ2dv_bBhnS-U6ZuGkrsXdf-
zstP0NcMIgEWjvoL8ac";
      "picture": {
        "data": {
          "is_silhouette": false;
          "url": "https://fbcdn-profile-a.akamaihd.net/hprofile-ak-xap1/v/t1.0-
1/c11.11.141.141/s50x50/66942_762747565601_1090639_n.jpg?oh=ec23095d699be1d55cf511d9ea1138c
6&oe=5533F271&__gda__=1433120160_2f43bc8695455e4f959921c96a02a6c0"
        }
      }
    }
  ],
  "paging": {
    "cursors": {
      "before": "MTAxMDE4NDkzNTI2OTkxNjE=";
      "after": "MTUxNTA="
    },
    "next": "https://graph.intern.facebook.com/v2.0/5943?pretty=0&fields=context.fields(all_mutual_frie
nds.limit(5).after(MTUxNTA=))"
  },
  "summary": {
    "total_count": 109
  }
}
}

```

From: [@airbnb.com](mailto:airbnb.com)>
Date: Sunday, March 15, 2015 at 1:15 AM
To: Francesca Covey
Subject: Re: Question for F8

Hi Francesca,

Yeah, likewise. Looking forward to the API information.

Yeah, I definitely talk to your designers. I have best availability on Tuesday (either 17th or 24th). Let me know if that works.

Best regards,

On Sat, Mar 14, 2015 at 1:24 PM, Francesca de Quesada Covey wrote:
Hi

Great speaking with you yesterday. I'll send over the api info first thing Monday.

Our designers love the AirBnB login flow. Would you be willing to talk to them before F8 to learn about your design?

Warmly,

Francesca

Sent from my iPhone

EXHIBIT 92

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: @netflix.com <@netflix.com>
Sent: Wednesday, February 18, 2015 5:10 PM
To: Chris Barbour
Cc: Konstantinos Papamiltiadis; Dhiren Patel; @netflix.com; Social Systems (GG)
Subject: Re: Graph API 2.0 Migration

No problem. See you tomorrow.

On Wed, Feb 18, 2015 at 4:27 PM, Chris Barbour <@netflix.com> wrote:
Sorry about the delay, @netflix.com. Please come to building 18 tomorrow.

Sent from my iPhone

On Feb 17, 2015, at 3:58 PM, @netflix.com <@netflix.com> wrote:

Sure, sounds good. I'll coordinate those on my side. What building should we show up at?

Thanks,

On Tue, Feb 17, 2015 at 10:38 AM, Chris Barbour <@netflix.com> wrote:
Typically, I would offer to come to you all, but since I have a meeting kicking off at 10 at FB, it would be great if we could meet here.

Chris

From: @netflix.com <@netflix.com>
Date: Tuesday, February 17, 2015 at 10:26 AM
To: Facebook <@netflix.com>
Cc: Konstantinos Papamiltiadis <@netflix.com>, Dhiren Patel <@netflix.com>
Subject: Re: Graph API 2.0 Migration

Works for me (@netflix.com may not be able to attend, but as this is technical, I don't think it's a big deal). Do you have a preference for Netflix vs. Facebook?

On Tue, Feb 17, 2015 at 10:21 AM, Chris Barbour <@netflix.com> wrote:
How about 9AM on Thursday, @netflix.com?

From: @netflix.com>
Date: Tuesday, February 17, 2015 at 9:13 AM
To: Facebook
Cc: Konstantinos Papamiltiadis · Dhiren Patel · ,
@netflix.com>, @netflix.com>
Subject: Re: Graph API 2.0 Migration

Hey Chris,

I think Wednesday or Thursday morning (anytime before 1pm) would work. We're flexible on location too.

Regards,

On Fri, Feb 13, 2015 at 12:33 PM, Chris Barbour · wrote:
Thanks, guys. More than happy to meet and go through this stuff. Can you shoot over some availability for next week? I'm happy to come to you all or host you here.

On Feb 13, 2015, at 12:30 PM, @netflix.com> wrote:

Hi All,

We've spent some more time working through our upgrade path, and have a bunch more questions. It might make sense to actually meet on this, but here are the questions:

1. Since we will be whitelisted for getting *all* friends, not just connected friends, when user A connects for the first time, who was previously seen in the friend list of a connected friend B, should we assume in a subsequent request for the friend list for user B, friend A's id will change from an old id to an app scoped id?
2. We currently use the "installed" permission to determine which friends are connected. If we're whitelisted to get all friends, will this be a different API than the current friend API? If so, we can just make two calls, one to each API, and compare to determine which friends are connected and which aren't. If not, will we be able to get the installed flag, or do we need to look it up on our side?
3. In order to support a variety of image sizes, driven by a plurality of device requirements, we construct profile image urls using user ids and image size parameters. We do this so that we don't have to store 10s of image urls per user, and so we don't have to update our DB when a new image size is needed. Will there be any issues with constructing these urls, some of which will be using global ids (for non connected friends or old users) and some of which will be using app scoped ids?
4. We are currently whitelisted for certain graph API calls. Will the transition from global user ids to app scoped user ids affect these APIs or can we just assume that they will work?

1. Graph Get Permanent Access Token ("oauth/access_token") - used by connect flow
2. API Grant Permissions ("method/auth.grantExtendedPermission") - used by signup flows for devices that don't have a permissions dialog (TV UIs, etc.)
3. API login ("method/auth.login") - used by connect and sign up flows.
4. Graph post message ("/threads") - used for 1-1 recommendations.
5. Graph Ordered Friends ("me/orderedfriends") - used by connect/refresh flows.

5. What is the impact of upgrade on realtime updates? Specifically, will we get live updates for "user_friends" permission?
6. Do UI changes have to be coupled with backend? In particular, what happens if our website switches to using v2.0 SDK but backend has not, would connect still work?
7. Is there any change to where an app token can be used instead of a user token?

Thanks,

On Sat, Jan 10, 2015 at 5:20 PM, Konstantinos Papamiltiadis wrote:

+ Chris who is actually taking care of Netflix these days - also moving Bryan to bcc to save his inbox

Great news that you are making progress on your migration.

Let us know if there are any other questions you would like our help with. Let's ensure this is a smooth one.

kp

On 9 Jan 2015, at 16:57,

[@netflix.com](mailto:)> wrote:

Thanks Dhiren - that makes sense, and makes life a lot easier for us :)

On Fri, Jan 9, 2015 at 3:59 PM, Dhiren Patel

wrote:

Hi

You are correct, but to clarify: The IDs will stay the same from the point of the initial "contact" with the API, and with all future versions. You don't have to migrate all at once, you can make 1.0 calls with a 2.x ID. Maybe it will be easier to demonstrate graphically with my poor Excel skills:

Connects/disconnects don't matter here, if you installed Netflix with 1.0, you'll get the 1.0 IDs even if the user goes to their FB app settings, deletes the app, and reinstalls/authenticates with 2.x.

Hope I'm covering your main question here; if not, happy to discuss further.

Cheers,

Dhiren

From:

Date: Friday, January 9, 2015 at 12:15 PM

To: Bryan Hurren, Konstantinos Papamiltiadis, Dhiren Patel

Cc:

Subject: Graph API 2.0 Migration

Happy new year, FB folks,

We've been looking at what we have to do, server side, to upgrade to Graph 2.0. We have various database tables that are either keyed off or contain FB user ids, so the biggest risk for us is if these ids can ever change, for a given user. From the docs, we found the following statement:

"No matter what version they originally used to sign up for your app, the ID will remain the same for people who have already logged into your app. This change is backwards-compatible for anyone who has logged into your app at any point in the past."

Does this mean that, regardless of a user's connect behavior (i.e sequence of connects/disconnects that may occur before, during, or after the Graph 2.0 migration), the first time Netflix sees a given id for a user, it is always valid to use this id when making calls to Graph 2.0 APIs (before, during, and after migration), and Netflix will always see this same id in friend lists of the user's friends (before, during, and after migration)?

Thanks,

EXHIBIT 94

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Konstantinos Papamiltiadis
Sent: Wednesday, February 11, 2015 5:08 AM
To:
Cc: Bryan Hurren; Steve Jarrett
Subject: Re: Automotive contact
Attachments: image001.jpg; image002.jpg

Hello

This permissions won't be available to anyone post 04.30, so inevitably all similar integrations will be subject to the same deprecations/restrictions.

Thanks a lot,
kp

From: @Airbiquity.com>
Date: Tuesday, February 10, 2015 at 10:11 PM
To: Konstantinos Papamiltiadis
Cc: Bryan Hurren , Steve Jarrett
Subject: RE: Automotive contact

Okay, I understand what you're saying, I'm just disappointed that we won't be able to support the app properly.

Is it possible for you to assure us that no other in-car systems are exempt from this restriction? I want to make sure I have all of the facts when we explain this issue to our OEM.

Thanks

From: Konstantinos Papamiltiadis
Sent: Tuesday, February 10, 2015 1:40 PM
To: .
Cc: Bryan Hurren; Steve Jarrett
Subject: Re: Automotive contact

Hello

Trust me when I say this, but this is not the first time, I have a similar conversation with a partner of an in-car integration.... We have considered all those points below, but ultimately we think the experience of the in-car integrations Vs what people can experience using the main FB app is sub-optimal.

For that reason, we have decided to include in-car head units, in the list of platforms we won't be supporting with access to the newsfeeds any longer. Please note, people should not use the FB apps while driving, this is a given, but at the same time, we want them to get the full experience when they are legally able to do so.

Best,

kp

From: @Airbiquity.com>
Date: Tuesday, February 10, 2015 at 8:56 PM
To: Konstantinos Papamiltiadis
Cc: Bryan Hurren · Steve Jarrett
Subject: RE: Automotive contact

KP,

I'm sorry to be so insistent, but I don't agree with this reasoning.

1/ FB apps provide a better user experience overall

I would agree with this if we're only talking about the UX on the phone. Users, by law, aren't supposed to be using their phones while driving, so the UX while driving is zero. Our solution allows them to continue using FB safely while driving.

2/ FB adds features on the mobile apps every month – the release cycle of in-car integrations is way slower than that

Our solution utilizes the cloud, so we can update our Head Unit Platform (HUP) software whenever necessary and do so frequently. We don't rely on HU manufacturers, or car makers, to update the software we need when changes need to be made whether these are new features or bug fixes.

So, as you can see, we feel that we're providing a safe solution for Facebook users while driving. I would appreciate an opportunity to speak with you or the Automotive team so we can explain our reasoning. Please let me know if this is possible.

Thanks,

From: Konstantinos Papamiltiadis
Sent: Tuesday, February 10, 2015 12:29 PM
To:
Cc: Bryan Hurren; Steve Jarrett
Subject: Re: Automotive contact

Hello

I appreciate your feedback, but we have made a decision not to support rendering of newsfeed inside in-car head units and thus we won't be approving those integrations. A few reasons below:

1/ FB apps provide a better user experience overall

2/ FB adds features on the mobile apps every month – the release cycle of in-car integrations is way slower than that

So all in all, read_stream will only be approved for FB branded apps for platforms we don't have the resources the build the native apps on our own (Windows, Blackberry, etc).

Existing apps based on the v1 of the API will also need to go through Login review and as such read_stream will not be approved, so we are actively working with partners to migrate them to different solutions.

I hope this makes sense,

kp

From: @Airbiquity.com>
Date: Tuesday, February 10, 2015 at 7:38 PM

To: Konstantinos Papamiltiadis
Cc: Bryan Hurren
Subject: RE: Automotive contact

. Steve Jarrett

KP,

I'm confused about why `read_stream` wouldn't be approved. The purpose of our app is to reduce the use of the phone while driving to avoid driver distraction. If a user's Facebook feed is important to them, we think it would be better to display or use TTS to read the feed from the car's head unit rather than have them fumble with their phone while driving. As far as I know, there is no other way for them to access their Facebook account while in their car. Millions of Nissan drivers are doing this today with our app (based on v1.0 APIs) and Facebook and we believe they will want to continue doing so. Without the News Feed, there doesn't seem much utility for our users and we will have to recommend to our OEM that this app would be seriously degraded.

As for photos, we were considering asking the user to approve the Photos permission, but we've decided that our use of photos is in-coming rather than out-going. As long as our user's friends have included them in sharing their photos we would be able to display them in News Feed updates. This goes away if `read_stream` is not approved however.

I'm really concerned that the new rules will prevent us from supporting Facebook for our OEM customers. It is a highly desirable application but not if we are limited to Messages and Events.

From: Konstantinos Papamiltiadis
Sent: Tuesday, February 10, 2015 11:24 AM
To: .
Cc: Bryan Hurren; Steve Jarrett
Subject: Re: Automotive contact

Hello

As per my previous note, `read_stream` won't be approved for an app like yours.

`Read_mailbox` could be because eventually we may allow in car-apps with voice dictation to let people to reply to messages, but until then you can request for `read_mailbox` if you want to render messages on the screen.

No issue with `user_events`.

Not sure about the photos that you mentioned on the previous email... Can you please clarify?

When people go through Login and x-out from the requested permissions, the API will return an error. You can find more info here on how to handle missing permissions:
<https://developers.facebook.com>

I would advice you to go ahead and submit for review, for everything listed below with the exception of `read_stream`. With that in mind I would not submit screenshots where you render the newsfeed or interactions of people with their friends stories.

I hope this helps,
kp

From: @Airbiquity.com>
Date: Tuesday, February 10, 2015 at 6:16 PM
To: Konstantinos Papamiltiadis
Cc: Bryan Hurren , Steve Jarrett
Subject: RE: Automotive contact

KP,

We have not submitted our app for review yet as we want to make sure we are capturing the correct screens for the permissions we need. The purpose of our app is to allow the user to view, or listen to via TTS, the most important Facebook information to them without having to use their smartphone while driving. Focusing on driver safety, we use TTS to listen to the News Feed, preset comments, and disable the Head Unit keyboard when the vehicle is in motion. In one of you last emails you had mentioned that read_stream might be approved if we were using TTS rather than just visual text. We're not aware of any other Facebook in-car solutions, but our OEM customers feel this app is very important to their customers.

The permissions we're asking users to approve are:

- read_stream – Lets driver listen to their News Feed updates
- read_mailbox – Lets driver listen to their Messages
- user_events – Presents upcoming Events

The status that I included in my previous mail was regarding expected error scenarios when permissions were either On or Off. We think we may have misinterpreted the information on your developer site as our app is different from a typical smartphone app.

I've included some screenshots that we're planning to include with our submittal. Please let me know if you have any questions about this or anything else.

Thanks.

From: Konstantinos Papamiltiadis
Sent: Tuesday, February 10, 2015 2:37 AM
To:
Cc: Bryan Hurren; Steve Jarrett
Subject: Re: Automotive contact

Hello

I am afraid I have hard time to follow what's going on here.

Could you please:

- 1/ List the permissions you are requesting from the users?
- 2/ Confirm you have gone through Login review?

From the below it seems that you are requesting read_stream and user_events... which is not what you have originally suggested a few emails back.

Thanks a lot,
kp

From: @Airbiquity.com>
Date: Tuesday, February 10, 2015 at 12:47 AM
To: Konstantinos Papamiltiadis
Cc: Bryan Hurren , Steve Jarrett ·
Subject: RE: Automotive contact

Hi KP,

It's taken some time but we believe we're close to submitting our app for review. We do have some questions and I'm hoping you can direct me to the right resource to get some answers. It may be that we're just misunderstanding how the permissions are to be used, but the following comes from one of our developers who is commenting on the behavior we see in our testing. Choreo is our cloud app that uses the smartphone as the conduit to the car's head-unit.

Please let me know what you think,

Thanks,

Brief Summary of API Expectation

- Our expectation is that when we request content which the user has turned off, we will get a 31509 error code, and will then be able to show the user a popup.

Actual Implementation

- Messages
 - Works. We receive the error code, and we show the popup.
- Events
 - Instead of receiving the error code, we receive an empty response. We can't use that as a determining factor for showing the popup, because the user may just have zero events.
- News Feed
 - All feed data still shows up even when it is turned off. There is nothing in the response to indicate that the permission for this feature has been denied by the user.
- Photos
 - All photos still show up even when they are turned off. There is nothing in the response to indicate that the permission for this feature has been denied by the user.

Possible Solutions?

- Choreo has filed tickets for these issues with Facebook. Currently they are saying, look at the ICD - it's implemented correctly.
- We will just have to live with the following behaviour until we get a resolution from Facebook.
 - Events will show empty list
 - News feed will still show up

- Photos will still show up

From: Konstantinos Papamiltiadis
Sent: Wednesday, November 19, 2014 6:50 PM
To:
Cc: Bryan Hurren; Steve Jarrett
Subject: Re: Automotive contact

Hello

Access to read_mailbox provided the users can reply via VR would be approved then.

Let me know when you go ahead with your submission and I will make a note to the team that does the Login review.

Please ensure when you are about to submit that you provide screenshots for every place where those permissions are in use. If you are also considering asking for publishing permissions, please provide screenshots of how stories shared through your app will show up on Facebook.

Best,
kp

From: @Airbiquity.com>
Date: Wednesday, November 19, 2014 at 10:44 AM
To: Konstantinos Papamiltiadis
Cc: Bryan Hurren , Steve Jarrett
Subject: RE: Automotive contact

KP,

Yes, Voice Recognition is supported in most modern head-units today and our app supports VR for responding to texts, messages, email, etc. As I said, we follow strict driver distraction rules, which OEMs require, so we utilize TTS and VR whenever possible. It is possible that some HU's won't support VR or TTS, but those are on the lower-end.

Thanks,

From: Konstantinos Papamiltiadis
Sent: Tuesday, November 18, 2014 7:23 PM
To:
Cc: Bryan Hurren; Steve Jarrett
Subject: Re: Automotive contact

Hello

Will there be a way for people to reply to those message using voice dictation? If so, that may be interesting. Otherwise, this is probably not going to be approved as per my earlier feedback.

Best,
kp

From: @Airbiquity.com>
Date: Tuesday, November 18, 2014 at 3:39 PM
To: Konstantinos Papamiltiadis
Cc: Bryan Hurren , Steve Jarrett
Subject: RE: Automotive contact

KP,

So, we won't be able to display a user's messages from others on the HU? We are trying to limit the functions to those that don't cause driver distraction, and on most HU's, messages user TTS technology. Our goal is to limit the need for the driver to access their phone while driving. I'm concerned that we may not have a very useful FB tool if we can only display News, Status, Events, and Check-ins.

Here is an example of the Message and Message Details HU screens today. The user can tap the "right arrow" button to start the TTS feature.

We will plan on providing the screen-shots for the other permissions we need, but please let me know if you think we can make a case for Messages as well.

Thanks,

From: Konstantinos Papamiltiadis
Sent: Tuesday, November 18, 2014 3:20 PM
To:
Cc: Bryan Hurren; Steve Jarrett
Subject: Re: Automotive contact

Hello

With the exception of read_mailbox which is going to be available for specific use cases, in-car integrations may not be one of them, you should be fine submitting screenshots for the rest of the permissions and have them approved.

I hope this helps,
kp

On 18 Nov 2014, at 12:47,

@Airbiquity.com> wrote:

Hi KP,

Thanks for getting back to me. I will forward your responses on to our development team. As for permissions, in addition to public_profile, email and user_friends, we will ask for these:

user_checkins
read_mailbox
user_photos

Our understanding of the user_friends permission is that it will only return those friends who use Facebook and our application. Since our app is used only by owners of late-model Nissan and Infiniti vehicles, we believe the user base will be too small to make this feature useful. We will drop the "Display Friends" and "Nearby Friends" features we currently have and will focus on the features above.

Please let me know if you think sending screen-shots of these features will be sufficient when we ask to have our app reviewed.

Thanks again for your help.

From: Konstantinos Papamiltiadis
Sent: Tuesday, November 18, 2014 12:22 PM
To:
Cc: Bryan Hurren; Steve Jarrett
Subject: Re: Automotive contact
Importance: High

Hello

A few answers inline....{kp}

From: @Airbiquity.com>
Date: Tuesday, November 18, 2014 at 11:34 AM
To: Konstantinos Papamiltiadis
Cc: Bryan Hurren , Steve Jarrett
Subject: RE: Automotive contact

Konstantinos,

Please let me know if you can answer our developer's questions below. We are working on an upgrade for one of our major auto OEM customers and I want to make sure we hit our schedule.

Thank you,

| Product Manager | Airbiquity |

<image001.jpg> <image002.jpg> <image003.png> <image004.jpg>

From: Bryan Hurren
Sent: Wednesday, November 12, 2014 11:48 AM

To: : Steve Jarrett
Cc: Konstantinos Papamiltiadis
Subject: Re: Automotive contact

Hi

Good questions. +KP the lead platform partnerships person for the team – he'll answer these questions much better than I can.

Bryan.

--

bryan hurren | strategic partnerships | facebook

From: @Airbiquity.com>
Date: Tuesday, November 11, 2014 at 9:43 AM
To: Bryan Hurren , Steve Jarrett
Subject: RE: Automotive contact

Hi Bryan,

Thank you for offering to help us find the right resource to answer our questions.

1. Our Facebook app is deployed in vehicles world-wide in production today and we integrate with unversioned graph api of Facebook. We would like to upgrade our apps to V2.0 one country at a time. In that context, will Facebook pose any limitations on talking to multiple versions of graph API until all the users have upgraded to V2.0?

{kp} Not really. It's up to you to change the end points at your own convenience, considering the restrictions/content available in the V2 of the API.

2. Do access tokens obtained through unversioned API work with V2.0 of graph API? As unversioned api will be deprecated on Apr 30,2015, will the tokens that are valid beyond Apr 30,2015 work with V2.0 after Apr 30,2015?

{kp} I believe the answer is yes here, as access tokens are not API dependent.

3. Is there any limitation on tokens, generated through a specific version, have to be used only with that version of graph api?

{kp} Same as above, I don't think this is tied to a version of the API, but I can double check.

4. We noticed new error codes were introduced in V2.0 of graph api and we didn't find any information online regarding the codes. Is there any documentation that provides this information?

{kp} We are constantly updating our docs with the error codes, best to search developers.facebook.com with the specific error code you are getting.

5. We understand that our application will need to be reviewed by Facebook due to the permissions we're asking of the end-user. As our application sends Facebook information to a vehicle's head-unit, testing our app without a head-unit is not possible. We can offer screen-shots of the head-unit display for each element which requires a permission if that's acceptable. Otherwise, we will need to make other arrangements.

{kp} Can we please confirm what kind of permissions you ask for? Provide screenshots would suffice for our review team, but please ensure those are all documented and screenshots are attached. If you can tell me which permissions you are asking for, I can give you an idea of which ones may or may not be approved.

Please let me know if any of these are unclear and I will get a clarification.

Thanks again for your help and we look forward to the response.

From: Bryan Hurren
Sent: Monday, November 10, 2014 2:20 PM
To: ; Steve Jarrett
Subject: Re: Automotive contact

Hi good to meet you. Send through your questions, and I'll find the right person to help Bryan

--

bryan hurren | strategic partnerships | facebook |

From: @Airbiquity.com>
Date: Monday, November 10, 2014 at 1:06 PM
To: Steve Jarrett
Cc: Bryan Hurren
Subject: RE: Automotive contact

Understood. My development team just wants to get some clarification on the new API's that weren't clear to them on the Developer's Site. I promise to keep it brief and to the point.

Thanks,

From: Steve Jarrett
Sent: Monday, November 10, 2014 11:57 AM
To:
Cc: Bryan Hurren
Subject: Re: Automotive contact

Scott is a friend and has moved on to a new team.

Don't know the other guys.

Bryan's team is the right team, but slammed. Hopefully can point you in the right direction, but most of the support is online

Thanks,
Steve

<image005.png>
Steve Jarrett
Mobile Partnerships

From: @Airbiquity.com>
Date: Monday, November 10, 2014 at 11:43 AM
To: Steve Jarrett ·
Cc: Bryan Hurren
Subject: RE: Automotive contact

Thanks Steve. Here are the names of some previous contacts we've had there. The first two bounced as no longer with the company and the second two did not respond.

Annand Sharma
Bill Stephenson
Scott Hannan
David Pio

Thanks,

From: Steve Jarrett
Sent: Monday, November 10, 2014 11:40 AM
To:
Cc: Bryan Hurren
Subject: Re: Automotive contact

+Bryan Hurren in our Partnerships team

Bryan, who is the right person to help with the API questions below?

In what geographies are the cars shipping? Will also intro you the right sales guys managing Automotive so at least they know what you are up to.

Thanks,
Steve

<image005.png>
Steve Jarrett
Mobile Partnerships

From: @Airbiquity.com>
Date: Monday, November 10, 2014 at 11:35 AM
To: Steve Jarrett ·
Subject: RE: Automotive contact

Steve,

Here is some marketing info about the company with a little more info. We currently support Nissan/Infiniti, Fiat-Chrysler, Ford, and Renault among others.

Airbiquity® is the global leader in connected car services and a pioneer in the development and engineering of automotive telematics technology, the foremost application of Machine-to-Machine (M2M). Airbiquity enables the vision of the connected car today with the industry's most advanced cloud based vehicle services delivery platform: "Choreo™." Working in partnership with Airbiquity, Automotive Manufacturers, Tier 1 Suppliers and Wireless Carriers are delivering customized connected car solutions meeting the management, safety and infotainment needs of their customers in 50+ countries and 30+ languages. Looking beyond automotive, Airbiquity is extending its innovative solutions to enable the next wave of M2M applications serving the Home Automation, Medical and Utility industries. Learn more about Airbiquity by viewing this [video](#) or visiting www.airbiquity.com.

Thanks again for your help.

| Product Manager | Airbiquity |

From:

Sent: Sunday, November 09, 2014 11:33 AM

To:

Subject: Automotive contact

Steve,

Thanks for getting back to me. Airbiquity supports about 5M cars right now, globally, for OEMs like Nissan, Chrysler, Renault, etc. We support FB now in our solution but we're still using the v1.0 APIs. We're going to migrate to v2.0/2.1/2.2 but we have some technical questions that we can't get sufficient answers to on the forums. Our previous contacts there are no longer with the company so it would be helpful to know who we can contact. I don't anticipate we would need much more than a few email exchanges to get the answers we need.

I really appreciate your offer to help and I hope you are doing well.

Cheers,

EXHIBIT 95

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Konstantinos Papamiltiadis

Sent: Friday, February 06, 2015 8:54 AM
To: Eddie O'Neil; Simon Cross; Monica Tsang
Subject: Re: Facebook Integration

I think it's fair to say: "those are just addendum and we need to original contracts where access to private APIs may be specified"

From: Eddie O'Neil
Date: Friday, February 6, 2015 at 4:52 PM
To: Konstantinos Papamiltiadis, Simon Cross, Monica Tsang
Subject: Re: Facebook Integration

What would I ask for?

Eddie

From: Konstantinos Papamiltiadis
Date: Friday, February 6, 2015 at 4:21 AM
To: Eddie O'Neil, Simon Cross, Monica Tsang
Subject: Re: Facebook Integration

Hello All,

I hope I am not missing something here, but the attached addendums (only one is fully executed btw), do not specify access to any private APIs in particular.

The latter may be specified in the original contract which we have not been able to locate on our end and I guess they have not either.

@Eddie, any chance we can go back and ask again?

kp

From: Eddie O'Neil
Date: Thursday, February 5, 2015 at 5:44 PM
To: Konstantinos Papamiltiadis, Simon Cross, Monica Tsang
Subject: Re: Facebook Integration

Contracts attached. There are two here – between FB <=> DNP [vendor] and FB <=> Walgreens [photo kiosks installed in store].

Eddie

From: Konstantinos Papamiltiadis
Date: Wednesday, February 4, 2015 at 10:36 AM
To: Simon Cross, Eddie O'Neil, Monica Tsang
Subject: Re: Facebook Integration

Legal sent me all the contracts they have on file for Walgreens and there is nothing related to auth.login (mostly NDAs and a Payment contract).

Is it possible to ask them to send us the contract they are referring to as I think our copy may have been misplaced?

Thanks a lot,
kp

From: Simon Cross
Date: Wednesday, February 4, 2015 at 5:05 PM
To: Eddie O'Neil, Konstantinos Papamiltiadis, Monica Tsang
Subject: Re: Facebook Integration

Yeah, pulling the contract would be good.

I'm cool with them keeping auth.login as they already have it – removing it would be a distraction at this stage.

Can we see what perms they're using? Obvs they may be affected if they're using friends_photos.

Lastly, we need to get them Login Reviewed ASAP.

S

From: Eddie O'Neil
Date: Wednesday, February 4, 2015 at 7:18 AM
To: Konstantinos Papamiltiadis, Monica Tsang
Cc: Simon Cross
Subject: Re: Facebook Integration

Sounds great – let me know what you find.

Eddie

From: Konstantinos Papamiltiadis
Date: Wednesday, February 4, 2015 at 7:17 AM
To: Eddie O'Neil, Monica Tsang
Cc: Simon Cross
Subject: Re: Facebook Integration

Hello Eddie,

I would love to check if we have a contract in place indeed (no reason to doubt their claim though), but more interested in finding out what it covers exactly and for how long....

Let me talk to contracts first if that's ok.

Best,
kp

From: Eddie O'Neil
Date: Wednesday, February 4, 2015 at 3:12 PM
To: Konstantinos Papamiltiadis , Monica Tsang
Cc: Simon Cross
Subject: FW: Facebook Integration

Hi all – see blow for a question from a developer about their use of auth.login.

Their scenario is a Walgreens photo kiosk with FB Login. Sounds like they are covered by a contract.

He's asking if anything will break with the migration – my sense is “no”, but wanted to make sure before I respond.

Thanks,
Eddie

From: <@dnp.imgcomm.com>
Date: Wednesday, February 4, 2015 at 7:02 AM
To: Eddie O'Neil
Subject: RE: Facebook Integration

Eddie,

We are not using Oauth to authenticate with Facebook, we are using the following URL provided by .

We have a contract for our generic implementation and Walgreens has a contract with Facebook for their app id..

WAG ID:
Generic ID:

Best Regards,

From: Eddie O'Neil
Sent: Wednesday, February 4, 2015 10:01 AM
To:
Subject: Re: Facebook Integration

Hi – thanks for your note. A few questions:

- 1/ what specific API(s) are you calling?
- 2/ do you have any contracts in place with Facebook?
- 3/ what's your app ID?

Thanks,
Eddie

From: @dnp.imgcomm.com>
Date: Wednesday, February 4, 2015 at 6:53 AM
To: Eddie O'Neil ·
Subject: Facebook Integration

Hello Eddie,

I'm still trying to get an official answer if you have a few seconds to read my previous email. Thank you for your time.

I hope you're doing well. I'm following up to see if I could get an answer regarding the private login API. Thank you for your time and help.

I work for DNP developing a printing solution that has been deployed to one of the largest pharmacy chains in the US. In 2011 I went to the Facebook Open Graph Technology Day in Austin, TX and met Aryeh Selekman. Aryeh helped us gain access to the private API for logging into facebook so customers can download and print their Facebook photos from our kiosk software. The private API made sense because these systems don't have keyboards attached and an open browser window is a security risk. I'm trying to understand the future of this API as FB moves forward with oauth 2.0 and the latest graph API. Does Facebook have plans to shut down this private login method?

Best Regards,

From: Mike Tedesco
Sent: Friday, December 19, 2014 5:00 PM
To: ; Eddie O'Neil
Subject: Re: Facebook Integration

Hi . Thanks for reaching out. I'm connecting you with Eddie O'Neil who drives our Platform/API work.

Thanks and best of luck.

Mike

From:
Date: Friday, December 19, 2014 at 8:38 AM
To: Mike Tedesco
Subject: Facebook Integration

Mike,

Thank you for taking the time to read my email. I work for DNP developing a printing solution that has been deployed to one of the largest pharmacy chains in the US. In 2011 I went to the Facebook Open Graph Technology Day in Austin, TX and met Aryeh Selekman. Aryeh helped us gain access to the private API for logging into facebook so customers can download and print their Facebook photos from our kiosk software. The private API made sense because these systems don't have keyboards attached and an open browser window is a security risk. I'm trying to understand the future of this API as FB moves forward with oauth 2.0 and the latest graph API. If have any information or can put me in contact with the right person I would appreciate it.

Happy Holidays and Best Regards,

Software Engineer II
DNP IMS America, Corp. – Photo Imaging Division

Disclaimer

This message is the property of DNP ImagingComm America Corporation, or its affiliates. It may be legally privileged and/or confidential and is intended only for the use of the addressee(s). No addressee should forward, print, copy, or otherwise reproduce this message in any manner that would allow it to be viewed by any individual not originally listed as a recipient. If the reader of this message is not the intended recipient, you are hereby notified that any unauthorized disclosure, dissemination, distribution, copying or the taking of any action in reliance on the information herein is strictly prohibited. If you have received this communication in error, please immediately notify the sender and delete this message.

Thank you.

EXHIBIT 97

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: @okcupid.com>
Sent: Friday, March 13, 2015 4:08 PM
To: Konstantinos Papamiltiadis;
Cc: Ime Archibong
Subject: Re: Intro

I am back at work 3/23, but I guess can make an exception if you have new info to share.

----- Original message-----

From: Konstantinos Papamiltiadis

Date: Fri, Mar 13, 2015 6:05 PM

To: ;

Cc: Ime Archibong;

Subject:Re: Intro

When is the earliest we can talk?

On 3/13/15, 4:04 PM, @okcupid.com> wrote:

>Fyi: I am on vacation next week...

>
>

>
>

>----- Original message-----

>

>From: Konstantinos Papamiltiadis

>

>Date: Fri, Mar 13, 2015 5:14 PM

>

>To:

>

>Cc: Ime Archibong;

>

>Subject:Re: Intro

>
>

>+ lme

>

>How about we have a call on Monday? I would like to have lme join us as
>well; he leads Global Partnerships here at Facebook and I have the
>pleasure to work for him.

>

>Thanks a lot,
>konstantinos

>

>

>From: @okcupid.com
>Date: Friday, March 13, 2015 at 2:29 PM
>To: Konstantinos Papamiltiadis

>Subject: RE: Intro

>

>We should talk. This isn't getting us very far.

>

>

>From: Konstantinos Papamiltiadis
>Sent: Friday, March 13, 2015 4:29 PM
>To:
>Subject: Re: Intro

>

>Hello

>

>We have been looking at creating some immediate benefit here, in the
>interest of unlocking the situation re Tinder being considered for the
>Audience Network sooner. In other words, if we invested the resources
>to add the app blocking capability for advertisers within a month as
>opposed to H2, would that have sufficient value?

>

>Let me know,
>kp

>

>From: @okcupid.com
>Date: Thursday, March 12, 2015 at 11:18 AM
>To: Konstantinos Papamiltiadis

>Subject: RE: Intro

>

>Konstantinos - We do massive business together. There's a long list of
>ways to enhance that. ³Unblocking Tinder's monetization² possibilities
>isn't really a productive approach. Honestly, you guys are chasing US
>to do that deal, not the other way around. We're happy to go with
>someone else if you consider that such a big give; that's not the
>impression I got from the people I'm negotiating with.

>

>Best,

>

>From: Konstantinos Papamiltiadis
>Sent: Thursday, March 12, 2015 1:16 PM
>To:
>Subject: Re: Intro

>
>I accept that what we have to offer may not be compelling enough for
>you, which is why I have asked for your help to understand what would
>make our proposal compelling.

>
>Do you have any thoughts here?

>
>Thanks a lot, :

>
>konstantinos

>
>From: @okcupid.com
>Date: Thursday, March 12, 2015 at 11:11 AM
>To: Konstantinos Papamiltiadis

>Subject: RE: Intro

>
>Konstantinos - We are very confident in the validity of our trademark
>and our success against any opposition. I'm not sure what you're
>trying to accomplish by continuing to reiterate that.

>
>So far you've offered an amount of money that is irrelevant to our
>companies. You've also offered no material non-financial consideration.

>
>Am I missing something?

>
>Best,

>
>
>From: Konstantinos Papamiltiadis
>Sent: Thursday, March 12, 2015 1:10 PM
>To: !
>Subject: Re: Intro

>
>I am still not sure what would make the proposal compelling for you.
>Can you help me out here?

>
>We have been working with and his team in true partnership spirit
>all this time, delivering value that we think is far greater than this
>trademark, so I want to ensure we continue working together
>cooperatively and I would appreciate your transparency here.

>
>As a side note, it's worth reminding you that the current deadline to
>oppose Tinder's pending trademark application is March 18. We'd
>obviously prefer to reach a deal before that deadline. If we have to
>file the opposition, we may still be able to come to a coexistence
>arrangement, but we will no longer be interested in acquiring your

>trademark application and any common law rights you may have in
>³Moments.²

>
>From: @okcupid.com
>Date: Thursday, March 12, 2015 at 10:38 AM
>To: Konstantinos Papamiltiadis

>Subject: RE: Intro

>
>Konstantinos - Ok, these are very unconvincing, which I can only take
>as a reflection that this matter isn't that important to you. Is that
>appropriate?

>
>
>From: Konstantinos Papamiltiadis
>Sent: Thursday, March 12, 2015 12:33 PM
>To:
>Subject: Re: Intro

>
>In the short term, Tinder can use our mobile SSP (to be launched in a
>couple of weeks time) that would allow them aggregate ads from direct
>sales as well as other buyers of inventory. In the mid term, we are
>committed to consider Tinder for the Audience Network (Q3 most
>probably), pending the introduction of a feature for the advertisers
>that would let them select which apps their ads can show up. I am not
>sure if you can consider this proposal non-monetary, as it will
>unlock Tinder's monetization possibilities, but I thought it would be
>helpful to share with you.

>
>konstantinos

>
>
>From: @okcupid.com
>Date: Thursday, March 12, 2015 at 9:40 AM
>To: Konstantinos Papamiltiadis

>Subject: RE: Intro

>
>Konstantinos - I've yet to see a proposal for any non-monetary
>compensation.

>
>From: Konstantinos Papamiltiadis
>Sent: Thursday, March 12, 2015 11:38 AM
>To:
>Subject: Re: Intro

>
>Hello

>I want to ensure there are no grey areas here! Let me know if we can
>jump on a call to discuss this today.

>
>Thanks a lot,
>konstantinos

>
>
>From: Konstantinos Papamiltiadis

>Date: Wednesday, March 11, 2015 at 5:34 PM
>To: ! okcupid.com
>Subject: Re: Intro

>
>The new app is related to photo sharing. It's meant to allow users to
>share photos with small groups of close friends. A user can share all
>the photos in raw form, before they can curate to share them in social
>apps or with broader audiences. So in other words, pretty different
>from Moments within Tinder and as such we don't believe there will be
>any confusion; however I am open to discuss the details with and
>Jonathan and figure our ways we can avoid any potential confusion
>within the respective product.

>
>I was not sure there was a question about compensation, apologies; in
>my mind we have been working collaboratively with and the team in
>good faith for the past 16 or so months! He is a member of a trusted
>group of advisers for our platform (Developer Advisory Board) and based
>on our commitment to provide a great and safe experience for the Tinder
>users, we have developed two new APIs that effectively allow Tinder to
>maintain parity of the product in the new API world.

>
>konstantinos

>
>From: @okcupid.com
>Date: Wednesday, March 11, 2015 at 5:23 PM
>To: Konstantinos Papamiltiadis

>Subject: RE: Intro

>
>Konstantinos - Without divulging too much, is the product similar to
>our MOMENTS product? Will it cause confusion? These are basic
>questions that I don't understand why you aren't more candid in answering.

>
>Also, you didn't respond to the other half of my email re: compensation?

>
>Rest

>
>From: Konstantinos Papamiltiadis
>Sent: Wednesday, March 11, 2015 7:21 PM
>To:
>Subject: Re: Intro

>

>Hello

>

>Fair question! In principle, we want to ensure that we can use the word
>³Moments² to name a new product we have in the making without exposing
>ourselves to any risks. In the US Tinder has filled an application for
>it, so all we are asking for is to let us use the term (co-exist), for
>the rest of world, we intend to file the application and let you use it
>in return.

>

>I hope this helps,
>konstantinos

>

>

>From: @okcupid.com
>Date: Wednesday, March 11, 2015 at 5:13 PM
>To: Konstantinos Papamiltiadis

>Subject: RE: Intro

>

>Hi Konstantinos -

>

>I'm still looking to understand what you're going to do with the mark,
>which is obviously central to our ongoing use of the mark.

>

>Also, I'm not really interested in cash compensation; I'm interested in
>a deepening of the good faith and trust in our relationship.

>

>Just don't want you to get on a plane if we don't even have the basics
>covered.

>

>Thanks,

>

>From: Konstantinos Papamiltiadis
>Sent: Wednesday, March 11, 2015 6:59 PM
>To:
>Subject: Re: Intro

>

>Hello :

>

>We have 2 options here that I think may have shared with you
>already but here again for completeness:

>

>Model 1: Assignment and license back

>

> * Tinder assigns all rights and interest in the name and trademark
>MOMENTS to Facebook, including to take all necessary steps to prosecute
>US Trademark Ser. No. 86159457 to registration, and assign it to
>Facebook thereafter. Tinder to identify, maintain, and assign any other
>active trademark applications or registrations for MOMENTS.

> * Facebook pays Tinder a reasonable compensation for this assignment.

> * Facebook licenses back to Tinder the right to use the name MOMENTS

>in connection with a photo sharing feature of its Tinder mobile app for
>a
>50 year renewable term.
> * Facebook will seek trademark protection for MOMENTS internationally
>at its discretion, and Tinder's license will extend to any territories
>where Facebook secures rights.
> * Facebook maintains the exclusive right to enforce the trademark
>MOMENTS at its discretion, but will consider in good faith any
>infringing uses that Tinder brings to Facebook's attention.
>Model 2: Coexistence
>
> * The parties agree to coexist, worldwide. Specifically, Tinder
>agrees not to take any action against Facebook for use of the name
>MOMENTS in connection with a photo sharing product.
> * The parties agree to work together to avoid any likelihood of
>confusion.
> * Tinder may maintain its US Trademark Ser. No. 86159457 at its
>discretion, and may make any new filings in its discretion, but will
>not assert such filings against Facebook.
> * Facebook may seek trademark protection for MOMENTS at its
>discretion in jurisdictions where Tinder has no existing filings, but
>will not assert such filings against Tinder.
>My understanding is that you already reviewed Model 1 and you decided
>to maintain ownership of the Trademark and not sell it to us which is fine.
>However, I am trying to establish if we can consider Option 2. In this
>scenario, we can both use the term moments in our respective products,
>you maintain the US trademark and you let us seek protection in other
>jurisdictions.
>
>I am more than happy to jump on a call to discuss this further with you!
>More importantly, I can fly to Chicago on Monday if that will help us
>close the deal. I want to ensure we have a holistic conversation about
>this relationship during which I can explain the steps we are taking to
>ensure both ends are happy with this partnership.
>
>Thanks a lot,
>konstantinos
>
>From: @okcupid.com
>Date: Wednesday, March 11, 2015 at 3:27 PM
>To: Konstantinos Papamiltiadis

>Subject: RE: Intro
>
>Hi Konstantinos -
>
>We want to be accommodating and flexible, out of respect for the deep
>relationship our companies have. I'm not exactly sure what you're
>asking us to do (give you a license to the mark, sell you the mark,
>etc.), I need to understand what you plan to use the mark for, and what
>accommodations you plan to make back to us for continued use of the mark.
>

>Thanks,

>

>From: Konstantinos Papamiltiadis

>Sent: Tuesday, March 10, 2015 5:25 PM

>To:

>Subject: Re: Intro

>

>Thanks a lot,

>

> , great to connect with you. Please let me know when it would be
>convenient for you to discuss how we can reach a mutually beneficial
>agreement re the trademark.

>

>Best,

>kp

>

>

>

>From:

>Date: Tuesday, March 10, 2015 at 2:33 PM

>To: Konstantinos Papamiltiadis

@okcupid.com

>Subject: Intro

>

>KP, please meet , one of Tinder's board members.

>I think it's worth while for you both to connect directly to discuss
>the Moments trademark.

>

>

> Founder & CEO, Tinder

EXHIBIT 158

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Sam Lessin
Sent: Sunday, January 20, 2013 8:27 AM
To: Deborah Liu
Cc: Mike Vernal; Douglas Purdy
Subject: Re: Weekly Platform Monetization HPM

The nekk growth is just freaking awesome. Completely exceeding my expectation re what is possible re ramping up paid products.

I would be really curious to see the stacked bar of spend / how it is growing. Is the growth propelled by a few guys who are really putting weight behind it or a bunch of people coming on in the 10s of K per day? Also, what percent are using the SDK and tracking value all the way through?

Really great stuff

S

EXHIBIT 170

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Mike Vernal
Sent: Sunday, October 07, 2012 9:05 PM
To: Mike Vernal; Mark Zuckerberg; Chris Daniels; Dan Rose; Douglas Purdy
Subject: Message summary [id.364074027012189]

Mark Zuckerberg:

>I've been thinking about platform business model a lot this weekend.

>

>One thing I've been thinking about a lot this is that we really should start a payments product for real-world goods and offer it at a much lower rate outside of canvas. Mobile apps need something like this for real-world purchases as well since iOS only does virtual goods. If we layer in a service like this with our login, then that's a pretty awesome combo and a good reason for people to use FB platform.

>

>I also think that if we make it so devs can generate revenue for us in different ways, then it makes it more acceptable for us to charge them quite a bit more for using platform. The basic idea is that any other revenue you generate for us earns you a credit towards whatever fees you owe us for using platform. For most developers, this would probably cover the cost completely. So instead of actually ever paying us directly, they'd just use our payments or ads products.

>

>A basic model could be:

>

>- Login with Facebook is always free

>- Pushing content to Facebook is always free

>- Reading anything, including friends, costs a lot of money. Perhaps on the order of ~\$0.10 / user each year.

>

>For the money that you owe, you can cover it in any of the following ways:

>

>- Buy ads from us in neko or another system

>- Run our ads in your app or website (canvas apps already do this)

>- Use our payments

>- Sell your items in our Karma store

>

>Or if the revenue we get from those doesn't add up to more than the fees you owe us, then you just pay us the fee directly.

>

>The rate of \$0.10 / user each year might even be too low. For example, at that rate Spotify would have to spend just \$3m per year with us in ads to be even and Pinterest would be around there too. We might be able to get this number to be meaningfully higher, especially if we don't charge until a dev has a meaningful number of users, like 50k or 100k.

>

>I've been reading a lot of books on finance and banking recently, and even though the idea of an information bank is not identical to financial bank, the comparison suggests some interesting things.

>

>For example, banks charge you interest for as long as you have their money out. Rather than letting devs pay a one time fee to fetch data, we could effectively do this by mandating that devs must keep data fresh and update their data each month for anything they call.

>

>Another idea is charging different developers different rates for things. The whole banking industry is based on charging people different rates. It may be that instead of having a flat fee for everyone, we should instead try set a norm where there's some range but the expectation is each developer gets some rate specific to them once they're at scale.
>
>Anyhow, those are just a few thoughts. We should haven't finalized our plan here yet so we should keep discussing this.
>
>In the meantime, I'd love to spin up an effort to build a real-world payments product for devs outside of canvas.

Douglas Purdy:

>1. We are beginning to work on a payment product that will work for real-world goods/services. We can review where we are with you next week.
>
>2. We are currently executing on the paid developer program (\$99 for app) that we are plan on rolling out in January. We are still working through the plan for API calls. I suggest that we spend some time tomorrow discussing what you outline here.

Christopher Daniels:

>I like the idea of giving our best partners/customers discounts on other offerings we have. Two thoughts, however: 1) for the things that we choose to charge for and make a profitable business out of, we should have confidence in our pricing such that we don't have to give anything away for free because each provides equal or more value than we charge. Said differently, if our prices are set correctly, nobody will expect us to give anything away for free because what we charge provides enough value. I want to seek a profitable business model for platform on its own before we start to think about packages/bundling. 2) rather than crediting revenue dollar for dollar, we should trade value based on the margin we earn. For example, a dollar of gross revenue from karma is much less profitable than from our ads business, so we shouldn't trade them 1:1.

EXHIBIT 172

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Mark Tonkelowitz
Sent: Wednesday, February 04, 2015 9:59 PM
To: Joseph Barillari; Mike LeBeau; Mike Vernal; Yul Kwon; Jeremy Galen; Mark Tonkelowitz; Ran Makavy; Evan Ling; Avichal Garg
Subject: Message summary [id.663395043771422]

Michael LeBeau:

>Hey guys, as you all know the growth team is planning on shipping a permissions update on Android at the end of this month. They are going to include the "read call log" permission, which will trigger the Android permissions dialog on update, requiring users to accept the update. They will then provide an in-app opt-in NUX for a feature that lets you continuously upload your SMS and call log history to Facebook to be used for improving things like PYMK, coefficient calculation, feed ranking, etc.

>

>This is a pretty high-risk thing to do from a PR perspective but it appears that the growth team will charge ahead and do it.

>

>Separately, Gravity team had been intending to ship the Bluetooth permission on Android at the same time - in fact we'd already delayed to accommodate more permissions from the growth team, but we didn't realize it was going to be something this risky. We think the risk of PR fallout here is high, and there's some chance that Bluetooth will get pulled into the PR fallout. Screenshot of the scary Android permissions screen becomes a meme (as it has in the past), propagates around the web, it gets press attention, and enterprising journalists dig into what exactly the new update is requesting, then write stories about "Facebook uses new Android update to pry into your private life in ever more terrifying ways - reading your call logs, tracking you in businesses with beacons, etc".

>

>Gravity had a great initial reception. This is because we took painstaking steps to ensure that we had a clear story of user value for the hardware and spoke from a position of transparency but not over-emphasis about the potentially scary bits. But we're still in a precarious position of scaling without freaking people out. If a negative meme were to develop around Facebook Bluetooth beacons, businesses could become reticent to accept them from us, and it could stall the project and its strategy entirely.

>

>So we're still treading very carefully, and of course the growth team is also managing a PR risk of their own with their launch.

>

>Given this, and the fact we have lots to iterate on with iOS, and we can still do non-beacon place tips on Android any time, we've been thinking the safest course of action is to avoid shipping our permission at the same time as "read call log".

>

>Normally we'd have to wait until July for the chance to ship again, since we only ship Android permissions updates a couple times a year as they tank upgrade rates. So our options, aside from the "ship together and pray" option which feels too risky to me, are to wait until July to ship the Bluetooth permission on Android or ask for a special exception to ship our permissions update sooner.

>

>Shipping permissions updates on Android has the downside of tanking upgrade rates, so we try to do it infrequently. But there could be an argument to doing it sooner in this case, as a compromise to allow both teams to continue moving fast, without unnecessarily conflating two PR risks into one.

>

>Wanted to make everyone aware of these options and welcome any thoughts/feedback about this.

Ran Makavy:

>I think separating the introduction of the two permissions to different releases makes sense. If there is a case to have another release before July, that would be a good compromise.

Avichal Garg:

>Yeah we should work with Lindsay and Will to figure out if we can do an intermediate release before six months

Avichal Garg:

>And what the optimal timing for that would be

Yul Kwon:

>(y)

Michael Vernal:

>I acknowledge but tend to be less concerned about this risk than you guys are.

>

>I don't think there's a world where we delay the growth permission to give gravity air cover, so I think the real options are what you layout:

>1. Ship now

>2. Try to get an exception in ~April

>3. Ship in July

>

>My honest recommendation would probably be to go out with this launch, but if the team collectively feels strong about holding it I would investigate (2).

Yul Kwon:

>Just as a heads up, I was in a separate meeting with Lindsey today, and I got the impression that Release Eng would be very opposed to an intermediate launch. We should definitely explore this, of course, but should expect strong reservations.

Yul Kwon:

>Also, the Growth team is now exploring a path where we only request Read Call Log permission, and hold off on requesting any other permissions for now.

Yul Kwon:

>Based on their initial testing, it seems that this would allow us to upgrade users without subjecting them to an Android permissions dialog at all.

Yul Kwon:

>It would still be a breaking change, so users would have to click to upgrade, but no permissions dialog screen. They're trying to finish testing by tomorrow to see if the behavior holds true across different versions of Android.

Michael Vernal:

>(y)

Yul Kwon:

>Mike V. - The Growth team's meeting with Mark is scheduled for tomorrow at noon. Javi's admin accidentally left you off the invite, so I asked her to add you. She said she was checking with your admin to see if you could make it, but we haven't heard back. Will you be able to join?

Michael Vernal:

>Eep; will be hard. Will check tomorrow.

Yul Kwon:

>Ok, thanks. This is annoying. The Growth team and Naomi agreed that you were critical, but this apparently fell through the cracks when they set up the meeting. The same thing happened to Sheryl and Cox, neither of whom will be attending as a result.

EXHIBIT 180

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Matt Scutari
Sent: Friday, November 15, 2013 4:53 PM
To: Nicky Jackson Colaco; Maritza Johnson; Erin Egan
Cc: Rob Sherman
Subject: Re: HPM

Android Permissions. Matt has been working with the privacy PM, PMM, and Legal to understand privacy risks associated with several Android permissions that will go out in the next release, including permissions associated with reading call logs and SMS. Simultaneously, we're working to mitigate policy risks associated with a proposed help center FAQ designed to list and provide an example of each permission.

Follow Redesign. Matt is working with the privacy PM, PMM, and Legal to finalize help center and user ed content for the Follow redesign, which is slated to roll out to 10% on 11/20.

Only Me Stickiness. Matt is providing policy feedback on a Mark Z. request that Product explore the possibility of making the Only Me audience setting unsticky. The goal of this change would be to help users avoid inadvertently posting to the Only Me audience. We are encouraging Product to explore other alternatives, such as more aggressive user education or removing stickiness for all audience settings.

Privacy Shortcuts Icon (Mobile). In response to user confusion regarding the new padlock button for privacy shortcuts added next to user names in Android (users think their account is being locked down), Product has proposed removing the shortcut icon entirely. Matt is working with PR, Legal, and others to assess the risks associated with removal and explore any potential alternatives, such as redesigning the button.

Public Posting UFI Test. Matt is working with Product and others to finalize the details surrounding a planned test of the new UFI and filters for public comments, including the scope and location of the test.

Survey Issues. Yul Kwon and Mike Nowak are interested in exploring the legal and policy implications of matching privacy survey results to user behavior to assess the extent to which user intent and user behavior are aligned. We have advised that we should be prepared to take some action to remedy user confusion revealed in the survey, ideally for the entire user population but at least for the user in our sample for which we have actual notice of confusion. Mike seems reluctant to commit to concrete action in either scenario in the short term, although he has expressed that he goal ultimately is to improve user comprehension.

Hope everyone has a great weekend!

Matt

Matt Scutari
Manager, Privacy and Public Policy | Facebook

From: Nicky Jackson Colaco

Date: Friday, November 15, 2013 at 4:05 PM

To: Maritza Johnson

Erin Egan

Matt Scutari

Cc: Rob Sherman

Subject: RE: HPM

Instagram Directed Sharing. Nicky provided an update this week during our Weekly Privacy Download on directed sharing - now called 'Instagram Directs', which will launch on 12/9. As you know, this product allows people to send picture messages to a few individuals (max of 15). Because messaging is riskier from a material safety perspective, the core team is working on the following:

- 1) Ensuring that we are staffed from a UO perspective to support additional reports of directed shares, and are in a good place to escalate potentially sensitive reports to our e-crimes team;
 - 2) Using our backend tools to help identify anomalous and potentially predatory behavior (for instance, men sending Instagram Directs only to women our young boys);
 - 3) Creating extra education in-product, in Help Center, and via partners like the Safety Advisory Board to demonstrate a commitment to educating teens and others. While in the longer term, we plan to have 'flyouts' to educate those identified as teens, in the shorter term we are baking education into the NUXes when the product launches.
- We also plan to brief the Safety Advisory Board early next week (likely Tuesday).

From: Maritza Johnson

Sent: Friday, November 15, 2013 3:28 PM

To: Erin Egan; Matt Scutari; Nicky Jackson Colaco

Cc: Rob Sherman

Subject: Re: HPM

Hi Erin — I'll write up the details about my meeting with Alan this afternoon, and reply to Joel's prior email about the MIT policy center.

Have a great weekend, everyone!

- Maritza

Research

Maritza attended a member meeting for MIT CSAIL's Big Data initiative. Sameet Agarwal, Pinkesh Patel, and Ryan Mack also attended. Between the four of us, we had great coverage on any topic someone might want to talk about related to big data: infrastructure, data science, and privacy. I heard from more than one attendee that they were excited to see our strong presence at the event.

Most of the presenters were MIT faculty and students presenting projects from the past year. There was a strong focus on results: lots of interesting demos and experimental results. The keynote speaker was Deb Roy, MIT professor and chief media officer at Twitter. He gave an excellent talk on the power of social media to augment the TV watching experience. His keynote isn't available yet, but here's a similar talk he gave in March 2013. He focused on Twitter data but it applies to Facebook as well. It's worth watching for the visualizations alone.

<http://www.youtube.com/watch?v=GiAVKr3nvyE>

I was most interested in the sessions on big data applications, and privacy and security (<http://bigdata.csail.mit.edu/annual2013>). The speakers in the applications session spoke about applying data to public health problems, identifying genetic diseases, and improving education using MOOC data. It's great to hear positive applications of data that motivate solving the privacy questions. Each of the speakers noted that their research has been impeded by unsolved privacy questions like how do you obtain informed consent, and how do you design a system with transparency in mind. In the privacy session, Danny spoke about designing for trust when users might fear surveillance. He proposed that accountability must be embedded in the system design so that questions about data provenance, use, and transfer can easily be answered. Here's a neat demo on visualizing public Tweets. <http://mapd.csail.mit.edu/>

Maritza also attended the first meeting of the Big Data privacy working group. The group plans to approach the problem using specific case studies. The tentative plan is to focus on the MOOC data set first, and walk through the process of applying the available technical solutions and policy guidelines to define an arrangement that would allow the data to be shared with researchers. As a subtask of this work, the group will decide on a set of assertions that describe a successful data sharing program.

Maritza met with Alan Davidson to discuss the proposed MIT policy initiative.

Maritza, Rob, and Erin continued to iterate on a proposal for a research program centered on the privacy paradox.

Maritza continued to work with Cam and Bob Kraut on a proposal for a data donation program with Wolfram Alpha.

-- Maritza

From: Erin Egan
Date: Friday, November 15, 2013 2:02 PM
To: Matt Perault, Nicky Jackson Colaco, Maritza Johnson
Cc: Rob Sherman
Subject: FW: HPM

Thanks Rob. Others?

From: Rob Sherman
Date: Friday, November 15, 2013 2:00 PM
To: Erin Egan
Subject: HPM

Log In Anonymously. Rob continued work with the Open Graph team on Log In Anonymously (name subject to change), a product that will let people use their Facebook accounts (or, potentially, another Facebook-mediated account) to log into apps without the need to provide personal information or consent to sharing of data.

App post suggestions. To address concerns about apps posting "implicit" user actions back to Facebook timelines, the Open Graph team is working on a feature that will, on an opt-in basis, enable apps to send "suggested posts" describing your activity to a "locker" within Facebook. If enabled, users will be able to see potential actions they could post to their timeline and then tap on a suggestion to open up a pre-filled composer. Rob is working with the team on technical implementation details to address privacy concerns.

Stable identifiers. The privacy team is working to evaluate Google's recent move to restrict use of device identifiers on Android and limit companies' ability to combine them with personal identifiers — a key use case for Facebook and Atlas — potentially without subjecting Google itself to the same restriction. We're working to develop options for policy initiatives that can support product and partnership initiatives to compete effectively and address Google's approach.

Do Not Track. Rob attended a meeting of the Digital Advertising Alliance, which is aiming to finalize a Do Not Track standard as soon as December or January. We're pressing DAA to address Facebook-specific uses in its standard to ensure that we can continue to operate key aspects of our service under its proposed DNT approach.

India Privacy Legislation. Erin, Ankhi, Sarah, Emily and Rob will submit a draft of comments to the Centre for Internet and Society this week. This is an Indian NGO that is preparing a so-called "consensus" draft of privacy legislation, which will precede introduction of privacy legislation sponsored by the Indian government.

Brazil. The Internet Framework bill was amended to include some problematic new language on jurisdiction, personal data and penalties. Emily, Rob, and Katherine are developing proposed language to address issues with these new proposals.

International Privacy Policy Tracking Chart. Emily is finalizing a tracking chart to be debuted at the next Weekly Privacy Download. The chart will help us monitor developments in privacy regulations globally, focusing on high priority jurisdictions and highlighting problematic issues and any deadlines for intervention. Ultimately the chart's content can be used to create one-pagers.

Privacy group engagement. The privacy team worked this week with a number of privacy and trade groups, including the Future of Privacy Forum, Center for Democracy and Technology, the IAB and DMA. Of particular note this week, Emily is evaluating the possibility of joining the US Council on International Business (USCIB) and Maritza and Rob are working with the Direct Marketing Association to provide guidance on its new academic research initiative, which we are encouraging them to focus on the benefits of data to individuals and the economy and how we can better understand the "privacy paradox" -- the disconnect between what people say about privacy and what they actually believe.

Privacy Roundtable. Rob, Marcy, and Emily are working with the privacy PM and open graph teams on an event tentatively scheduled for MPK in January, where we'll bring in a group of privacy influencers to learn more about Facebook, our privacy and product design process, and to build relationships with privacy stakeholders within the company.