

EXHIBIT 84

UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE LODGED UNDER SEAL

From: Konstantinos Papamiltiadis </O=THEFACEBOOK/OU=EXTERNAL (FYDIBOHF25SPDLT)/CN=RECIPIENTS/CN=942ACCD3D3C54FBEA8B7253E97A8A6D7>
Sent: Friday, February 06, 2015 10:55 AM
To: Sergey
Subject: Re: Changes to FB API April 2015 - Hashed Anon All Friends API

Hello Sergey,

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

Thanks a lot,
kp

From: Sergey <serg@corp.badoo.com>
Date: Friday, February 6, 2015 at 5:59 PM
To: Konstantinos Papamiltiadis <kpapamiltiadis@fb.com>
Cc: Michelle Kennedy <michelle.kennedy@corp.badoo.com>, Andrey A <andrey@corp.badoo.com>, Julien Codorniou <julienco@fb.com>
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 <kpapamiltiadis@fb.com> wrote:

Hello Sergey,

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: Sergey <serg@corp.badoo.com>
Date: Thursday, February 5, 2015 at 11:20 AM
To: Konstantinos Papamiltiadis <kpapamiltiadis@fb.com>
Cc: Michelle Kennedy <michelle.kennedy@corp.badoo.com>, Andrey A <andrey@corp.badoo.com>, Julien Codorniou <julienco@fb.com>
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 <kpapamiltiadis@fb.com> wrote:

Hello All,

We have now whitelisted Badoo (App ID:107433747809), HotorNot (App ID: 187616458022324) and Bumble (App ID: 428250913904849) 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 <kpapamiltiadis@fb.com>

Date: Friday, January 23, 2015 at 11:02 AM

To: Michelle Kennedy <michelle.kennedy@corp.badoo.com>, Sergey <serg@corp.badoo.com>

Cc: Andrey Andrey <andrey@corp.badoo.com>, Julien Codorniou <julienco@fb.com>

Subject: Re: Changes to FB API April 2015 - Hashed Anon All Friends API

Hello Michelle and Sergey,

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: Michelle Kennedy <michelle.kennedy@corp.badoo.com>

Date: Thursday, September 18, 2014 at 11:24 AM

To: Konstantinos Papamiltiadis <kpapamiltiadis@fb.com>

Cc: Andrey Andrey <andrey@corp.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.

M

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

Hello Michelle,

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: Michelle Kennedy <michelle.kennedy@corp.badoo.com>

Date: Tuesday, September 16, 2014 at 9:03 PM

To: Konstantinos Papamiltiadis <kpapamiltiadis@fb.com>

Cc: Andrey Andrey <andrey@corp.badoo.com>

Subject: Changes to FB API April 2015

Hi KP

Hope you're well.

I know you've had a chat with Andrey 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

Michelle

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

Michelle Kennedy
Director & General Counsel

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