Exhibit 84

If there is no location in the ████████ and none in location history, then the Feed backend ████████████ never calls ████ and never snaps the user to anything (including home/work). This is implemented in the ████████████████

This has nothing to do with whether an inferred or explicit home/work exists for the user. The ████ team infers home/work locations and there might be an inferred home/work based on previous data, even if the user has since turned off location history. You need to confirm that with the ████ team.

On Sun, Sep 30, 2018 at 11:27 PM ████████████████ wrote:

████ did this ever launch?

████████████████████████████

It looks like it's set in a launch layer, but that it expires tomorrow:

████████████████████████████

████

On Fri, Sep 28, 2018 at 8:24 PM ████████████████ wrote:

████████████ or confirmation.

>> In proactive, we read ████████ and try to match the device location in the request OR a location history point

>> ████████ of the location in that ████ column, we snap them to that location. Otherwise, we call the ████ and trust that response.>>

████ do you know where the above logic is called? If the device location is wiped out in the ████████████ (code), will the ████████ never be called and there is no inferred home/work?

On Fri, Sep 28, 2018 at 6:15 PM, ████████████████ wrote:

GOOG-GLAZ-00079712

Thanks ▮ So this is before the ▮ call, right? Meaning we never make the call to ▮ because we ▮▮▮▮▮▮ and ▮▮▮▮▮
▮▮▮▮▮?

On Fri, Sep 28, 2018 at 5:50 PM ▮▮▮▮▮▮ wrote:

> Hi ▮
> We have wiped out the location in this code ▮▮▮

According to this, "this is the earliest place we see the ▮▮▮▮ itself in our GWS plugin."

On Fri, Sep 28, 2018 at 5:42 PM, ▮▮▮▮▮ wrote:

▮▮▮▮

So my read after chatting with ▮▮ :

- we compare the ▮ data to what we think is actual user location, which we get from device location or Location History. Since for new devices with LH-off we have access to neither (we stopped sending up device location, and we can't check Location History), we do not check the ▮ data.

- for old devices, we still send up device location but scrub in the logs. ▮▮▮▮ implemented the scrubbing of this location in the logs (http://▮▮▮ - can you guys let us know where this scrubbing take place so we can figure out if this ▮▮▮▮▮▮▮?

On Fri, Sep 28, 2018 at 4:45 PM ▮▮▮▮▮ wrote:

> Thanks for consolidating this into a single thread :)
>
> ( ▮▮▮ who is the expert on this computation.)

On Fri, Sep 28, 2018 at 4:44 PM ▮▮▮▮▮ wrote:

> In proactive, we read ▮▮▮ and try to match the device location in the request OR a location history point ▮▮▮▮ of the location in that ▮ column, we snap them to that location. Otherwise, we call the ▮▮ and trust that response.

Newer client versions do not send a device location in the request for LH off users.

On Fri, Sep 28, 2018 at 3:56 PM Kevin Berlin ▮▮▮ wrote:

Hey Marlo, ██ et. al.,
██ (cc'ed) and I were discussing location usage in Search just now, and had a few points we wanted to confirm with you about ██ behavior for users with Location History paused:

1. If a user pauses Location History but ██ has already made an inference as to the user's home/work locations, we retain that inference until account deletion, correct? Do we also remove that inference if a user deletes the place visits that led to that inference?

2. Would a service that integrates with Location History be able to retrieve those home/work inferences while the UDC bit for the service is paused?

3. Could services that consume data directly from PlaceVault continue to read that data for a specific user when LH is paused for that user?

Thanks so much!
-Kevin
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Kevin Berlin
Senior Privacy Engineer
Google