

# Exhibit 201

**From:** [REDACTED]  
**To:** [REDACTED]  
**Sent:** Mon, 6 Aug 2018 11:12:19 -0700  
**Subject:** Fwd: Android Location / Google Play Service

----- Forwarded message -----

**From:** [REDACTED]  
**Date:** Mon, Aug 6, 2018 at 11:11 AM  
**Subject:** Re: Android Location / Google Play Service  
**To:** [REDACTED]  
**Cc:** [REDACTED]

On Mon, Aug 6, 2018 at 8:37 AM, [REDACTED] wrote:

[REDACTED]

Thanks [REDACTED]

Non-authoritative answers:

1) AFAIK, yes, IIRC, the Play Store grabs location when it checks in with Play servers, but I believe that's only if you have a GAIA added.

(which I don't)

1b) Yes, but you need to flash a no-google-services build and install a 3P location services provider. Location is an API that apps use, and Google's location service uses more than just your raw GPS data, and is a Google service. If you're asking a Google service to determine location, you're asking Google to determine location.

So there is no way to give a third party app your location and not Google? This doesn't sound like something we would want on the front page of the NYT.

2) I believe these two articles cover the topic:

<https://policies.google.com/privacy#infocollect>  
<https://support.google.com/accounts/answer/3118687?hl=en>

*We collect information about your location when you use our services, which helps us offer features like driving directions for your weekend getaway or showtimes for movies playing near you.*

*Your location can be determined with varying degrees of accuracy by:*

- GPS

- IP address
- Sensor data from your device
- Information about things near your device, such as Wi-Fi access points, cell towers, and Bluetooth-enabled devices

*The types of location data we collect depend in part on your device and account settings. For example, you can turn your Android device's location on or off using the device's settings app. You can also turn on Location History if you want to save and manage your location information in your account.*

If you're looking for an authoritative, technical, up-to-date, collectively-exhaustive user-facing help article on what every bit of information is collected in each app and each packet your device sends, you won't find it, and it isn't supposed to exist. You can always check the AOSP source code yourself.

AFAIK, if you turn location history off, and location services off, there will be no location data obtained by Google from the device, except for your IP if you use a Google service in a browser.

TBH, given what you seem to want to do (not have any contact with any Google service whatsoever), your only option is flashing LineageOS for microG on your phone and getting away entirely from the Google ecosystem.

My personal phone is a heavily modified image, based on a LineageOS image. It's G-Free. That is why I'm playing on a loaner corp phone.

Curiosity: Does anyone know what SMS messages the phone tries to send right when it comes up after a reboot? My security catches and blocks them (No SMS without manual verification, including the OS). I've not sniffed them.

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IIRC, that is part of the W3C's payment request API, and our Chrome's implementation. Here's how Stripe uses it:

*For example, if your customer has previously stored their card details in Chrome, the Payment Request API enables you — the merchant — to request that information from the browser, instead of having your customer fill out a full checkout form.*

And an implementation example here:

<https://stripe.com/docs/stripe-js/elements/payment-request-button>

The `paymentRequestButton` Element gives you a single integration for [Apple Pay](#), [Google Pay](#), [Microsoft Pay](#), and the [Payment Request API](#) —a browser standard that gives your customers the ability to quickly provide you payment and address information they've stored with their browser.

Using this Element, your customers are shown either an Apple Pay button or Payment Request button, depending on what is supported by their device and browser combination. If neither is available, the button is not displayed.

For customers who don't use Apple Pay, the Payment Request button supports browser-saved cards, Google Pay, and Microsoft Pay.

On Fri, Aug 3, 2018 at 3:36 PM [REDACTED] wrote:

Playing with a loaner corp phone to learn more about android features ...

Enabling location services enables location for "Google Play Service", with the statement that Google Play Service provides the service.

Two questions, assuming location has been disabled for every other app on the locations permissions screen.

1) Does Google get the phone location?

If Yes

1a) Does Google store the location, if the user is not logged in?

1b) Is there a way to enable GPS other than Google Phone service, that can be used by third party apps? In this case, I'm experimenting with trying to use Lyft, who needs the location data. Google does not.

2) Where was I supposed to find this information? My web searches, on google, and moma failed to find the answer. Does this indicate a missing help page somewhere?

The phone I'm playing with is a Nexus5 running 8.1.0

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