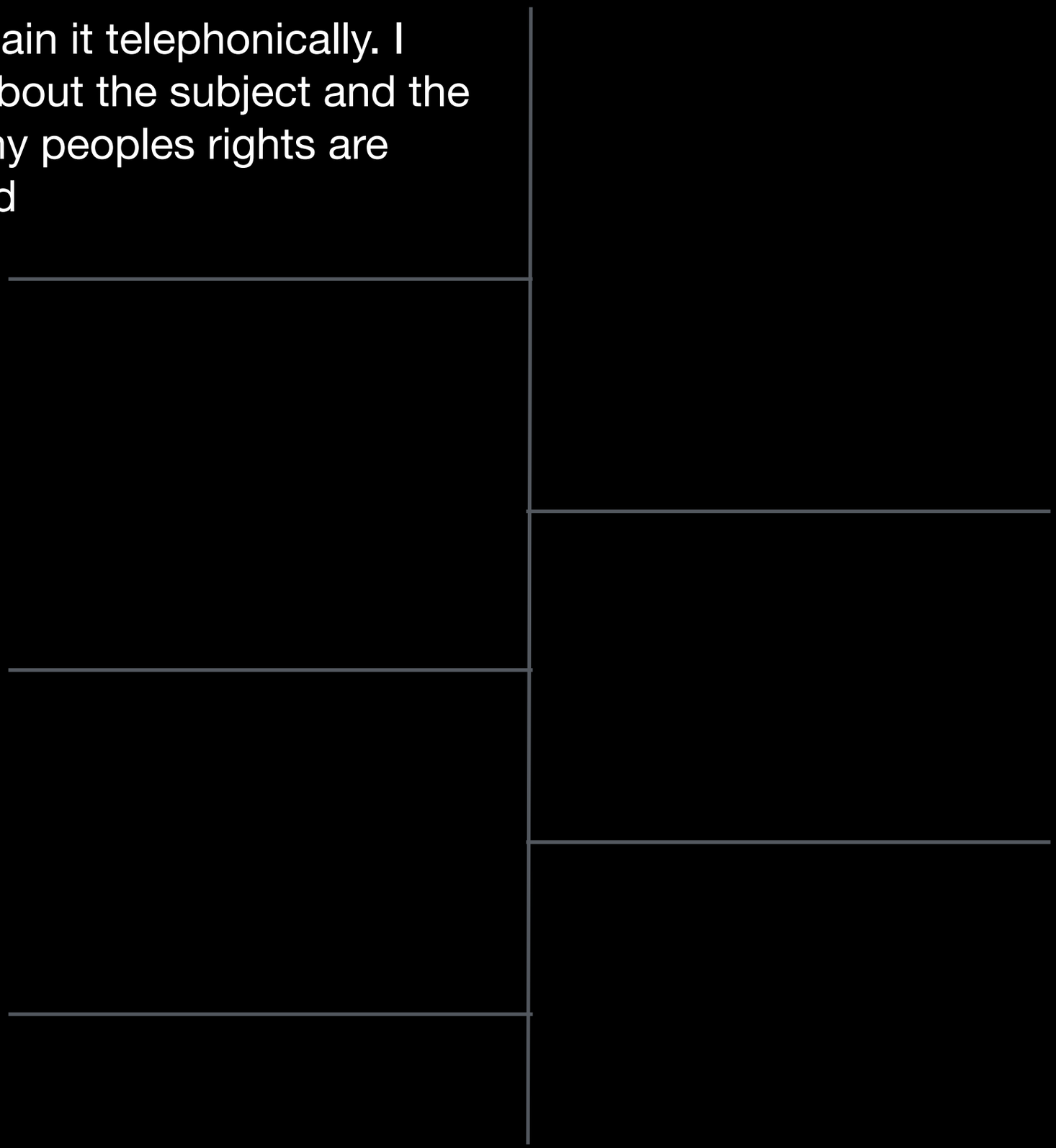
How You Can Buy AT&T, T-Mobile, and Sprint Real-Time Location Data on the Black Market

Joseph Cox, DEF CON 27

“There is a new bail bond database company that is geo tracking people. People are reselling o the wrong people. Call me [REDACTED]”

Id rather explain it telephonically. I know a ton about the subject and the industry. Many peoples rights are being violated



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If you are paying the 300 sure

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We'd like to test the ping— if I give you one of our own US numbers, would that work to test?

If you are paying the 300 sure

So the number is [REDACTED]. When do you think it will be doable?

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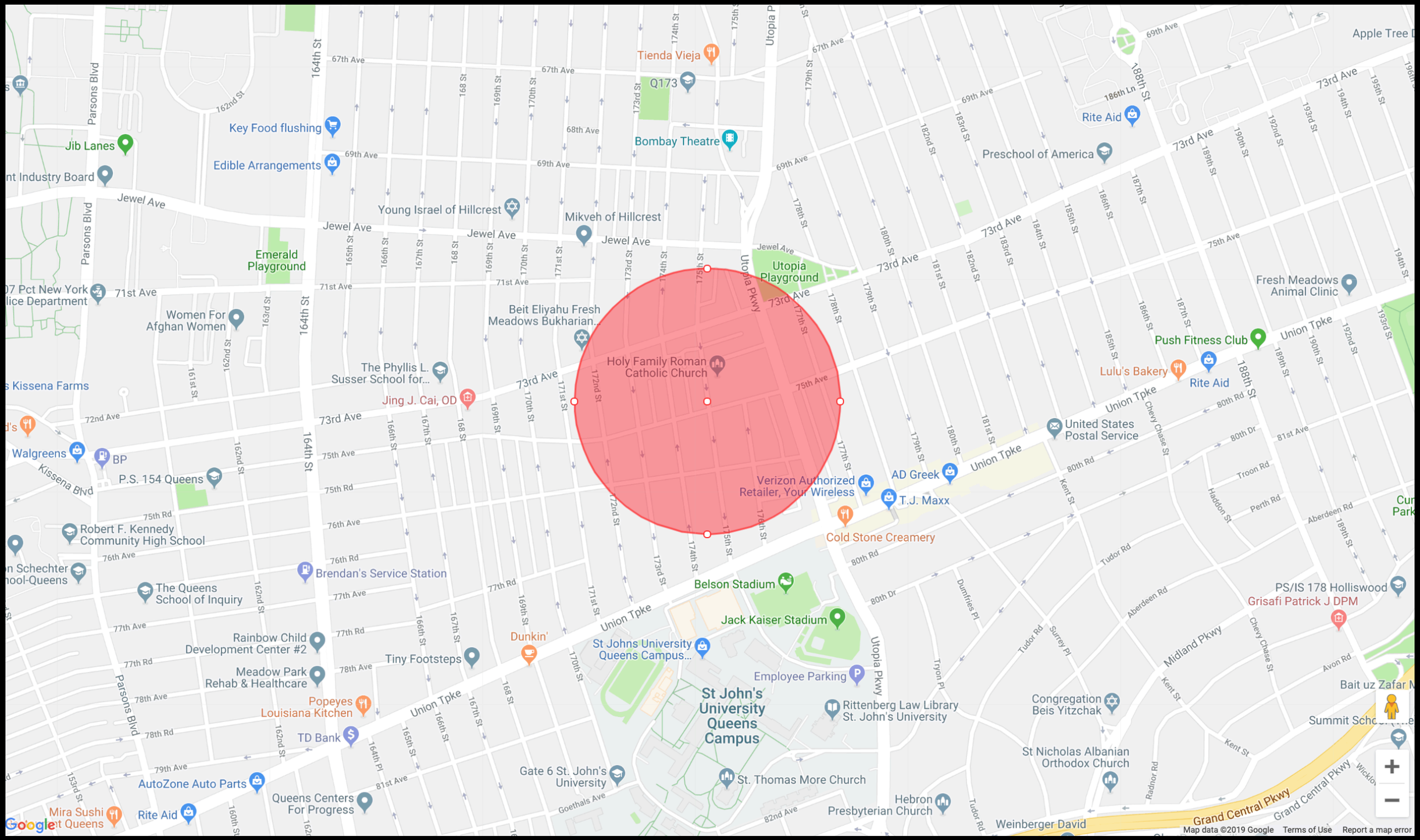
We'd like to test the ping— if I give you one of our own US numbers, would that work to test?

If you are paying the 300 sure

So the number is [REDACTED]. When do you think it will be doable?

Ok let me figure this out


Tienda Vieja
Q173
Bombay Theatre
Key Food flushing
Edible Arrangements
Jib Lanes
Young Israel of Hillcrest
Mikveh of Hillcrest
Emerald Playground
Utopia Playground
Rite Aid
Preschool of America
Fresh Meadows Animal Clinic
Push Fitness Club
Lulu's Bakery
Rite Aid
United States Postal Service
Women For Afghan Women
Beit Eliyahu Fresh Meadows Bukharian...
Holy Family Roman Catholic Church
The Phyllis L. Susser School for...
Jing J. Cai, OD
Kissena Farms
Walgreens
BP
P.S. 154 Queens
Robert F. Kennedy Community High School
Brendan's Service Station
The Queens School of Inquiry
Rainbow Child Development Center #2
Meadow Park Rehab & Healthcare
Popeyes Louisiana Kitchen
TD Bank
Tiny Footsteps
Dunkin'
AutoZone Auto Parts
Queens Centers For Progress
Rite Aid
Mira Sushi
Verizon Authorized Retailer, Your Wireless
AD Greek
T.J. Maxx
Cold Stone Creamery
Belson Stadium
Jack Kaiser Stadium
St Johns University Queens Campus...
Employee Parking
St John's University Queens Campus
Rittenberg Law Library St. John's University
Gate 6 St. John's University
St. Thomas More Church
Hebron Presbyterian Church
St Nicholas Albanian Orthodox Church
Congregation Beis Yitzchak
PS/IS 178 Holliswood
Grisafi Patrick J DPM
Bait uz Zafar
Summit School
Weinberger David
Grand Central Pkwy
Parsons Blvd
164th St
Utopia Pkwy
Jewel Ave
71st Ave
73rd Ave
Union Tpke
Kissena Blvd
Map data ©2019 Google
Terms of Use
Report a map error

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You know more about location data, or anything else you think should be published?

Signal: +44 20 8133 5190

Wickr: josephcox

Jabber: jfcox@jabber.ccc.de

Email: joseph.cox@vice.com

- How our source bought that location data

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- The supply chain of location data, and the different roles companies play in it

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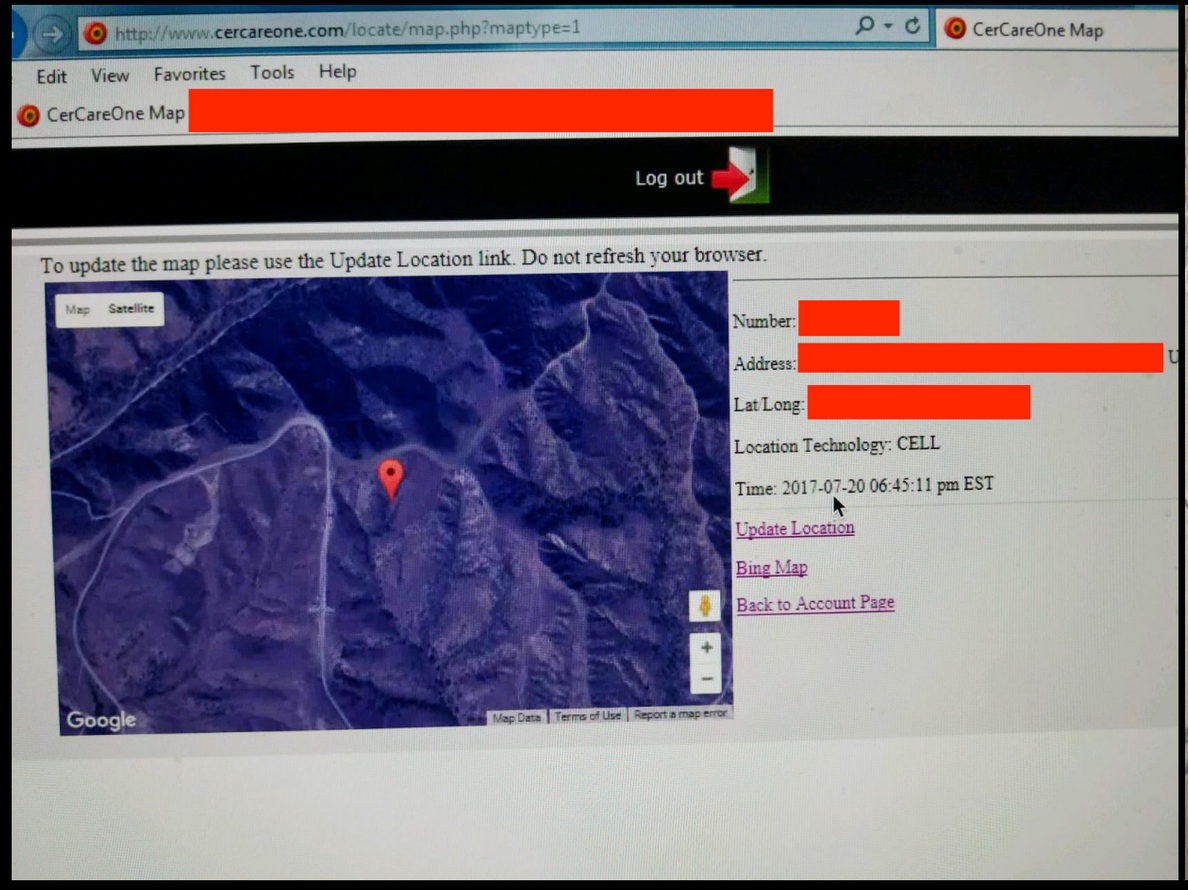
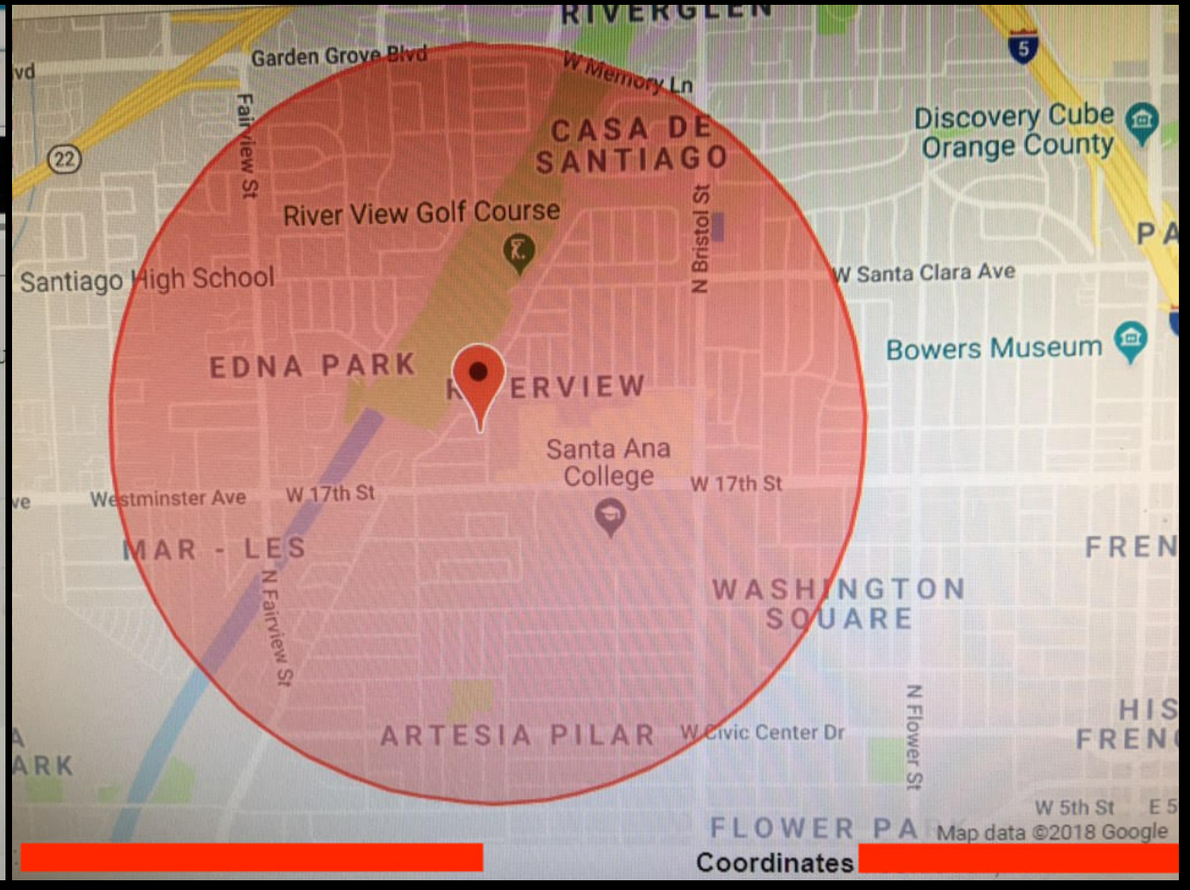
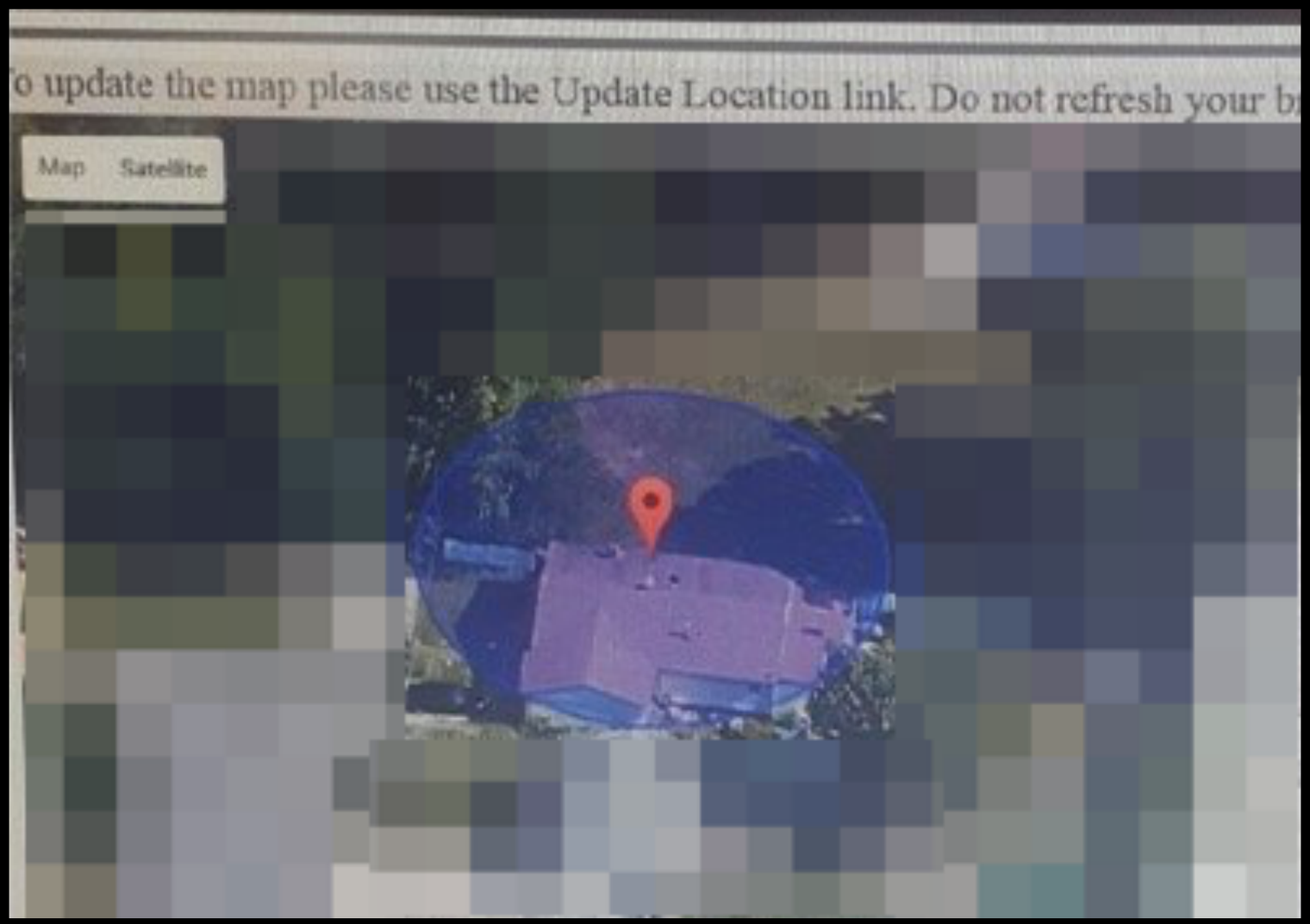
- The supply chain of location data, and the different roles companies play in it
- Leaked documents which show the scale of this location data market—it's not a one-off
- How people are still getting location data out of the main telecoms through different means, and how that black market trade works

- Cell tower data
- Few blocks +





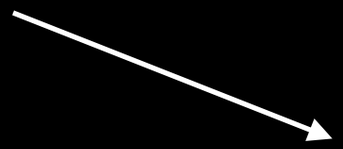
- Assisted GPS (A-GPS)
- Metres
- Where inside a building



How the hell did he do that???

Carriers

Carriers



‘Location Aggregators’

Carriers

‘Location Aggregators’

Data Brokers

Carriers

‘Location Aggregators’

Data Brokers

End User Clients

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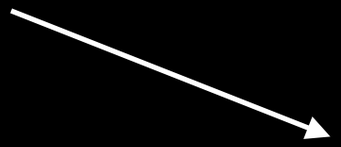

Zumigo
Mobile in Context

Solutions - Consent

Zumigo
Mobile in Context

- Remove the consent requirement of stating that information is being released by the "carrier".
- Instead, allow more flexible language, such as:
  - *"You authorize the bank and its service providers to use your mobile account for verifying your identity and protecting you from fraud."*

****

- Make the release of carrier data opt-out, rather than opt-in, when it is being used to prevent fraud and identity theft.

****

- Create a national registry for consumers to opt-in to allow their mobile information to be used for fraud prevention purposes.

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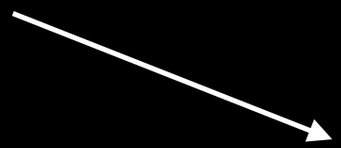
T · · Mobile ·®









Zumigo
Mobile in Context

microbilt

VERIFY A LOCATION

Mobile Device Verify can also confirm the location of a device based on a submitted number, returning helpful location information including:

- Verification of submitted location
- Current/last geolocation of the device with a timestamp
- Geolocation latitude and longitude coordinates
- Estimated location accuracy given available towers for triangulation
- Proximity of current location to submitted location

VERIFY AND MONITOR - BOTH ACCOUNT AND LOCATION

Mobile Device Verify also offers a powerful monitoring feature whereby the account and location information can be verified, and you can set up monitoring with control over the weeks, days and even hours that location on a device is checked as well as the start and end dates of monitoring. On-demand reporting is available throughout the duration of a monitoring period.

Identity Verification

(Select all services currently planned for use and/or testing)

	Tier 1	Tier 2	Tier 3	Tier 4	Tier 5	Tier 6
	1-250	251-1,000	1,001-5,000	5,001-10,000	10,001-20,000	20,001 +
Mobile Device Verification *						
- **Mobile Device Account Verification** [1] ☐	$0.25	$0.23	$0.20	$0.18	$0.17	$0.16
- **Mobile Device Account & Location Verification** [2] ☐	$4.95	$4.46	$3.96	$3.56	$3.32	$3.22
- **Mobile Device Account & Location Verification Monitoring (per device)** [3] ☐	$12.95	$11.66	$10.36	$9.32	$8.68	$8.42
- **Mobile Device Verification Report** ☐	Included with Monitoring					

* All items are governed by FCRA guidelines. Charges are assessed for inquiries returning a "Hit" and "No Hit" result for all verification products.
1 Verifies the submitted information against the mobile carrier billing account information.
2 Verifies the submitted information against the mobile carrier billing account information & attempts to identify the mobile device location.
3 Verifies the submitted information against the mobile carrier billing account information & attempts to identify the mobile device location with subsequent location monitoring.

2. User's intended use of the above service(s) is: _____.

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Motor Vehicle Sales

Solutions for decisioning, fraud detection and collections, all in one place.



A complete suite for used car, buy here-pay companies.

Property Management

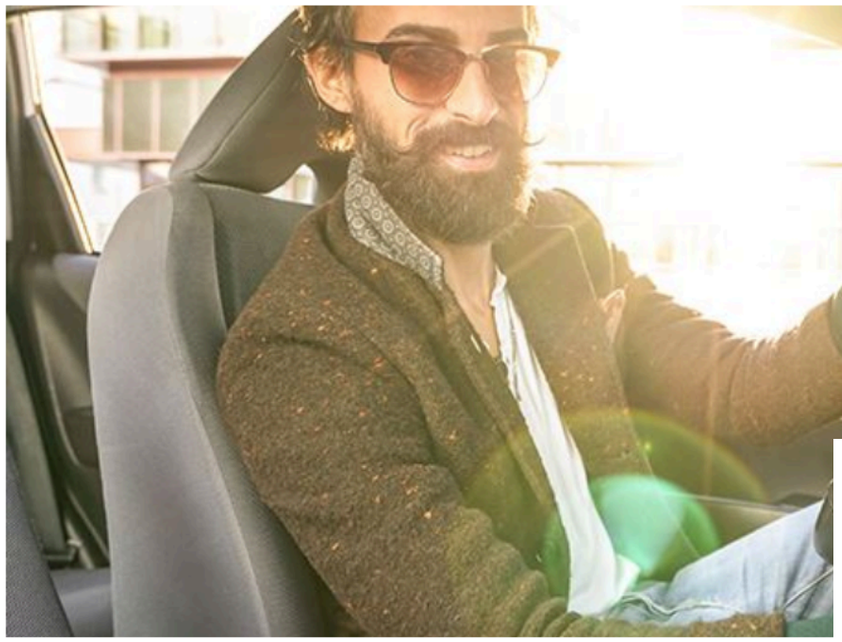
Know who you're leasing to, before you sign a contract.



MicroBilt provides a complete set of tenant screening and fraud detection tools for landlords and property management companies.

Motor Vehicle Sales

Solutions for decisioning, fraud detection and collections, all in one place.



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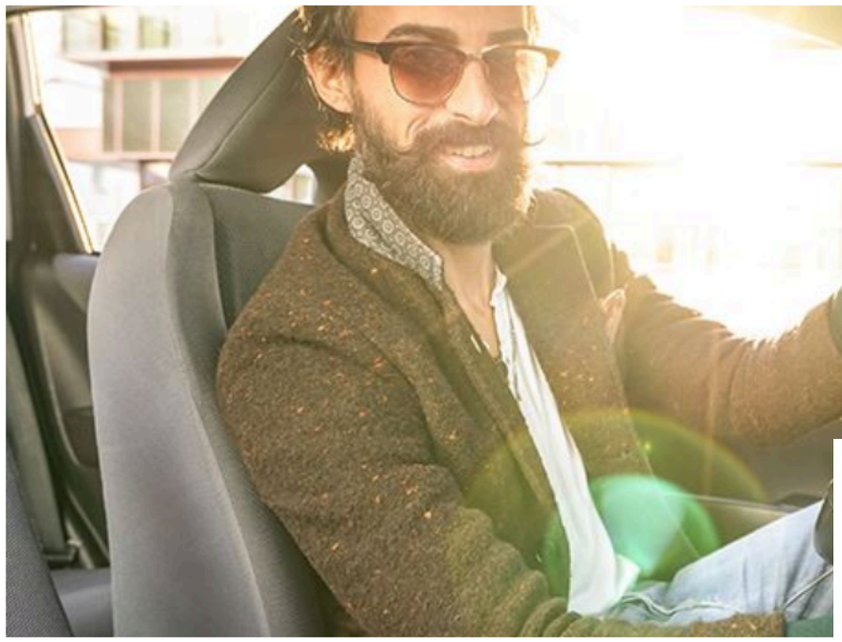

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MY SOURCE

MOTHERBOARD

Welcome to CerCareOne

Thank you for visiting our site, however, it is currently under construction.



Welcome to CerCareOne

Thank you for visiting our site, however, it is currently under construction.



Email Address:

Password:

Login Invalid login information.

Remember my email address.

Accounts

Company	Username			
L	je	Numbers	Activity	Billing
#	b	Numbers	Activity	Billing
0	tu	Numbers	Activity	Billing
0	L	Numbers	Activity	Billing
1	jo	Numbers	Activity	Billing
1	y	Numbers	Activity	Billing
1	1	Numbers	Activity	Billing
1	c	Numbers	Activity	Billing
1	to	Numbers	Activity	Billing
1	B	Numbers	Activity	Billing
2	2	Numbers	Activity	Billing
2	2	Numbers	Activity	Billing
2	w	Numbers	Activity	Billing
2	g	Numbers	Activity	Billing
2	j.	Numbers	Activity	Billing
2	g	Numbers	Activity	Billing
3	a	Numbers	Activity	Billing
A	d	Numbers	Activity	Billing
A	a	Numbers	Activity	Billing
A	a	Numbers	Activity	Billing
A	a	Numbers	Activity	Billing
A-	k	Numbers	Activity	Billing
A-	b	Numbers	Activity	Billing
A	B	Numbers	Activity	Billing
A	b	Numbers	Activity	Billing

18	818	2017-06-27 13:13:50	2	Found	CELL:582
19	818	2017-06-27 11:11:33	2	Found	CELL:448
20	952	2017-06-26 19:49:58	6	Found	A-GPS:21
21	952	2017-06-26 19:48:04	6	Found	A-GPS:18
22	952	2017-06-26 19:46:27	6	Found	A-GPS:13
23	952	2017-06-26 19:45:08	6	Found	A-GPS:13
24	952	2017-06-26 19:43:30	6	Found	A-GPS:13
25	952	2017-06-26 19:41:56	6	Found	A-GPS:21
26	651	2017-06-26 16:53:02	6	Found	A-GPS:31
27	562	2017-06-26 15:27:35	6	Found	CELL:3502

e. The subscriber agrees to use their best efforts to safeguard their username and password and may be prompted periodically to change the password being used.
f. The subscriber is aware of and agrees to supply to Cercareone.com a maximum of two (2) IP addresses from which access to Cercareone.com will be limited to further ensure privacy and limited access & attests that said IP addresses belong to the subscriber.

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37	9	2017-06-26 11:35:47	64.
38	9	2017-06-26 11:04:51	64.
39	9	2017-06-26 10:46:45	64.
40	6	2017-06-23 11:37:40	71.
41	4	2017-06-22 21:24:38	131
42	6	2017-06-22 21:19:30	131
43	2	2017-06-21 08:53:31	87.
44	2	2017-06-21 08:52:49	87.
45	2	2017-06-20 20:48:18	87.

Administration

Accounts Reports

Plans Search

Billing history for [redacted]@gmail.com

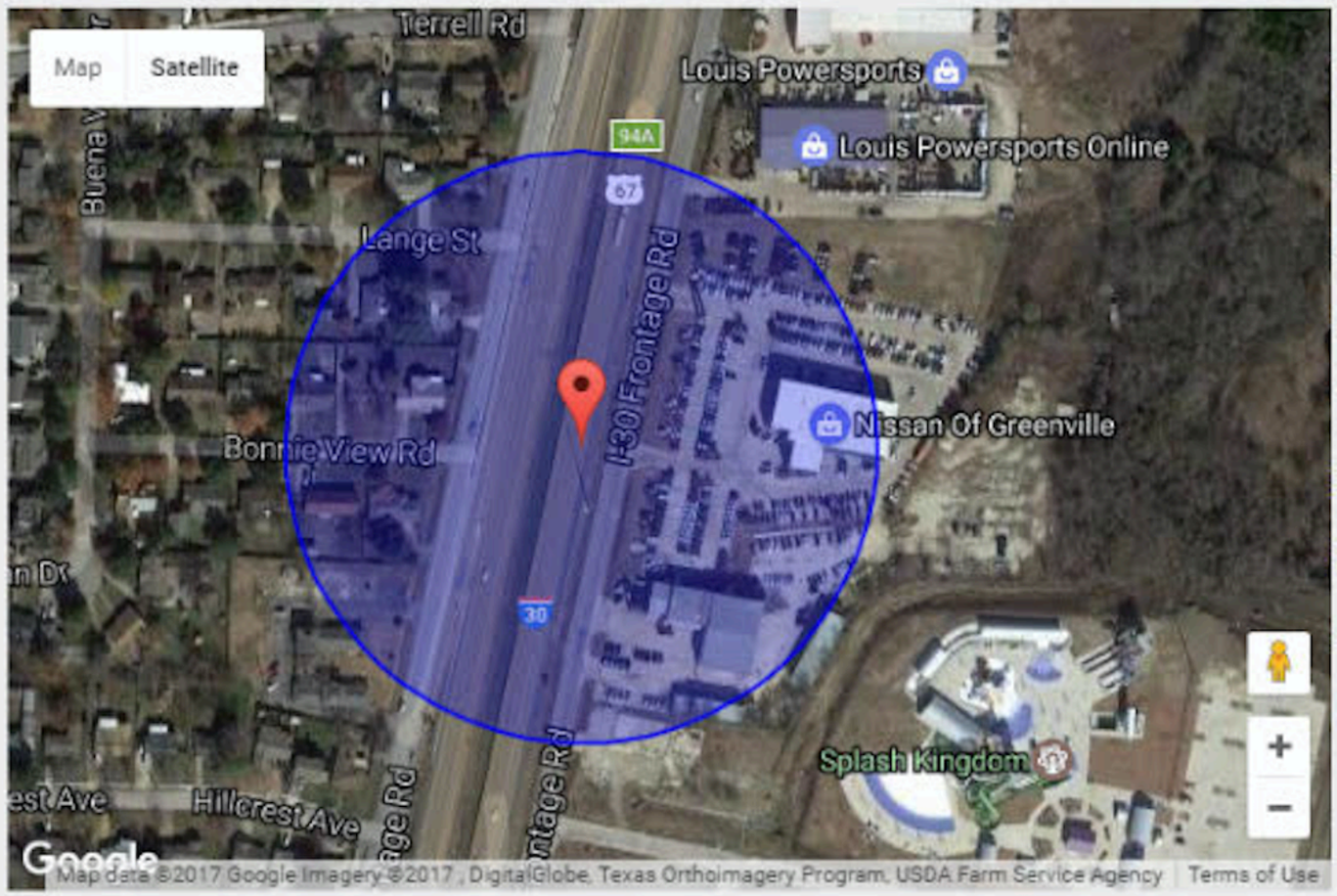
Date	Amount	Transaction ID
2016-09-15 13:58:47	$1100	[redacted]
2017-02-17 12:34:16	$1100	

CerCareOne

Log out

Nova Systems - Dan Grable [redacted]

To update the map please use the Update Location link. Do not refresh your browser.



Number: [redacted]

Address: 6309 I-30, Greenville, TX 75402, USA

Lat/Long: 33.104714,-96.103163 r134

Location Technology: A-GPS

Time: 2017-05-30 11:14:23 pm EST

Update Location

Bing Map

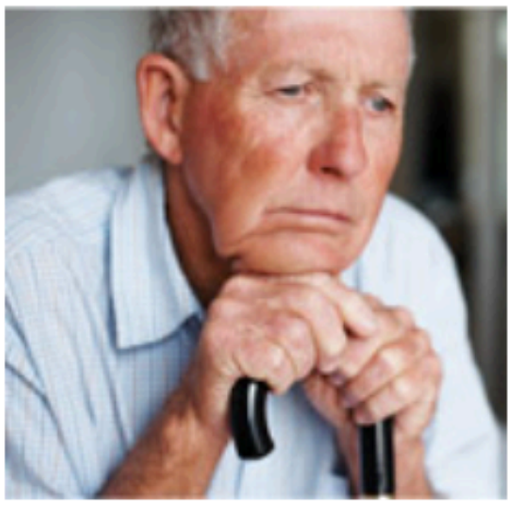
Back to Account Page

Pay per Ping balance: $226.00


Can't Find Your
Cell Phone?
Can't Find Your
Loved One?
WE CAN HELP!







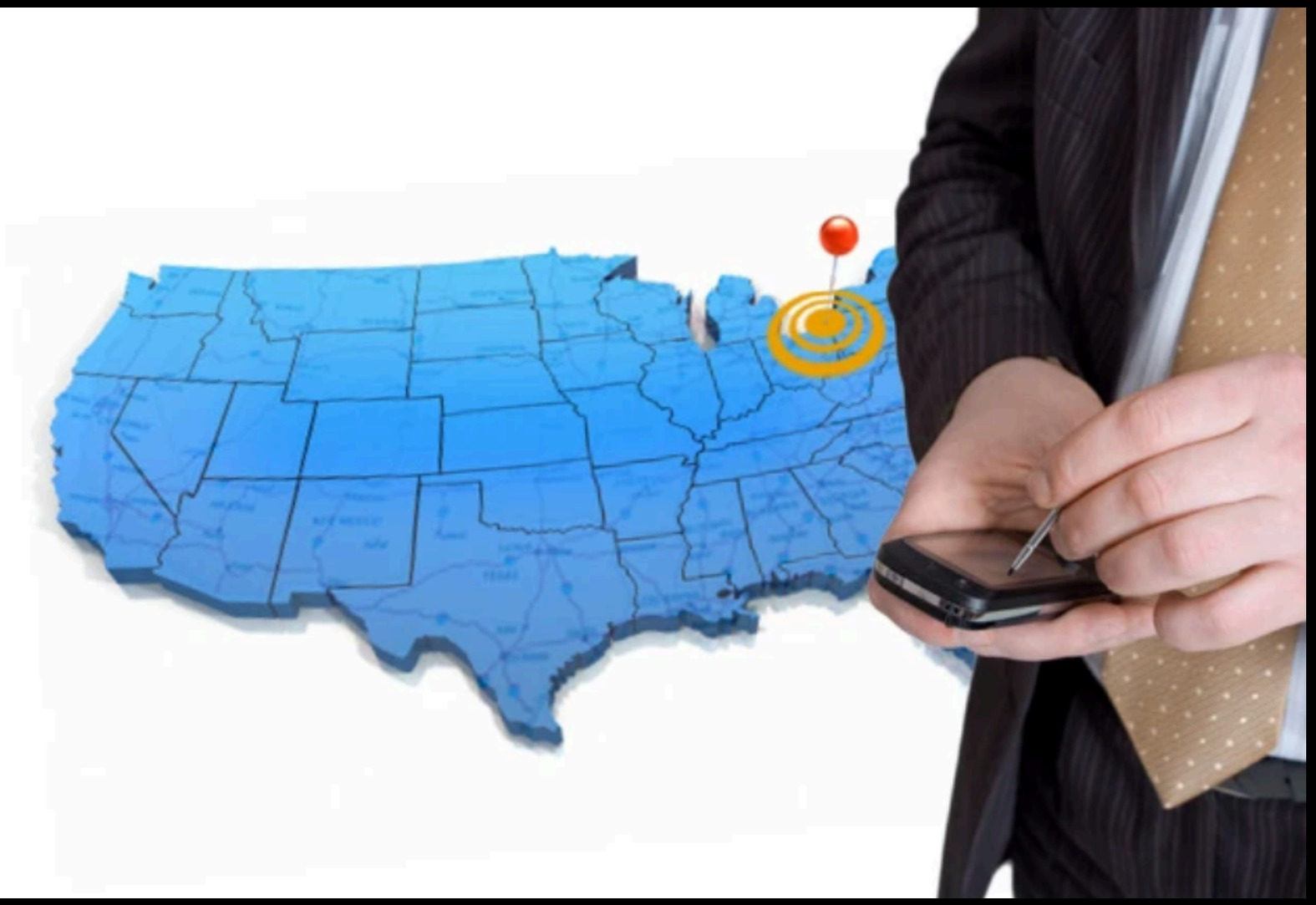
verizon

Instantly Locate Defendant Cell Phone

- All major carriers - Verizon, AT&T, Sprint & T-Mobile
- Tower triangulation and GPS (if available)
- See location on Google Maps

Only $7.50
No response-no charge

ORDER NOW



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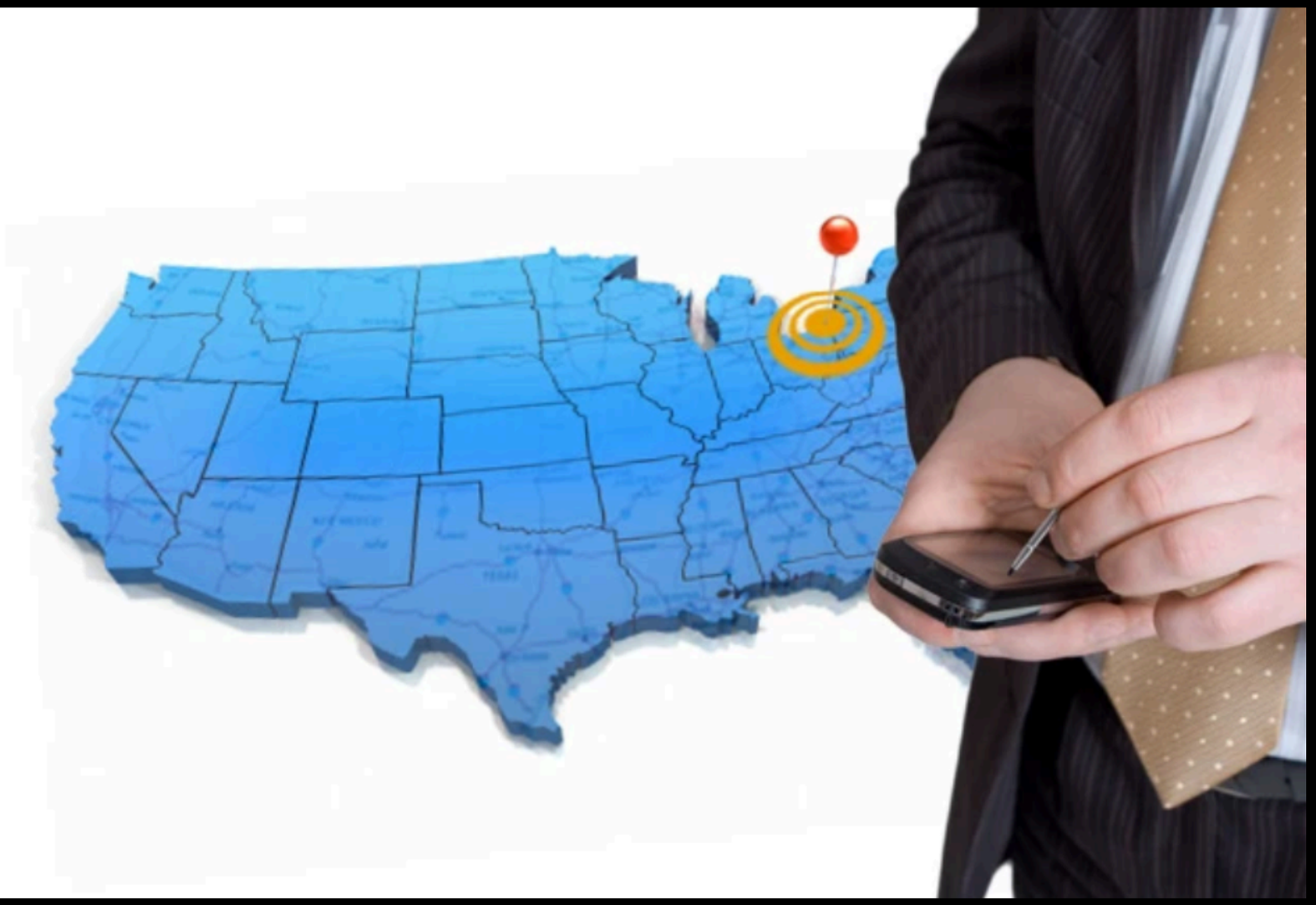
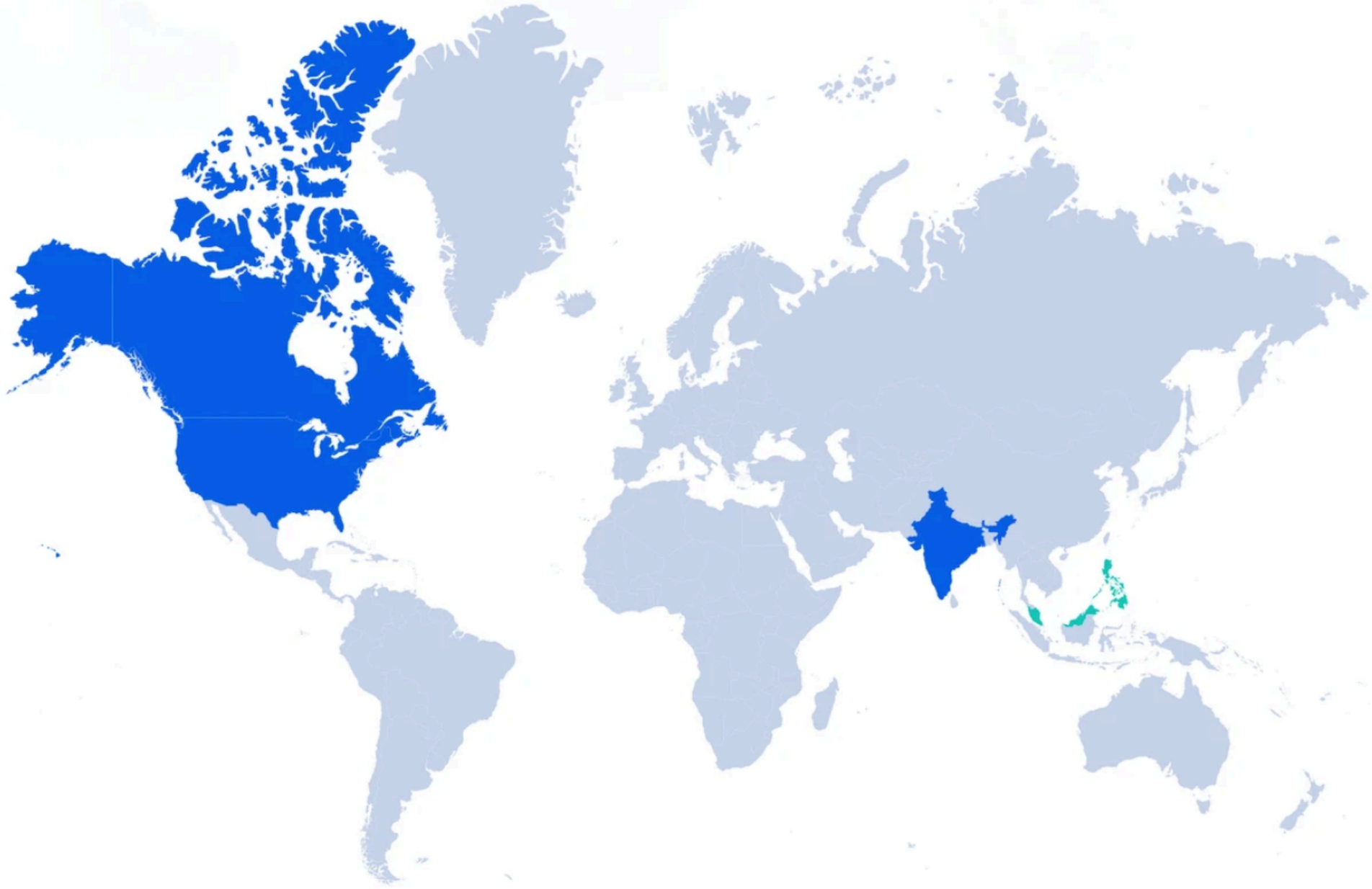


ALL COVERAGE

Products

- **PhoneID Standard**
- **PhoneID Contact**
- **PhoneID Contact Plus**
- **PhoneID Contact Match**
- **PhoneID Live**
- **PhoneID Number Deactivation**
- **PhoneID Subscriber Status**
- **PhoneID Current Location Plus**
- **PhoneID Device Info**
- **PhoneID Porting History**
- **PhoneID Porting Status**
- **Score**
- **SMS**
- **Voice**
- **Anonymous SMS**



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TECH BY VICE

AT&T to Stop Selling Location Data to Third Parties After Motherboard Investigation

After Motherboard found that AT&T, T-Mobile, and
selling their customers' phone location data ultima
hunters, AT&T has decided to stop service for all l
aggregators, an essential part of the data supply

By **Joseph Cox**

MOTHERBOARD
TECH BY VICE

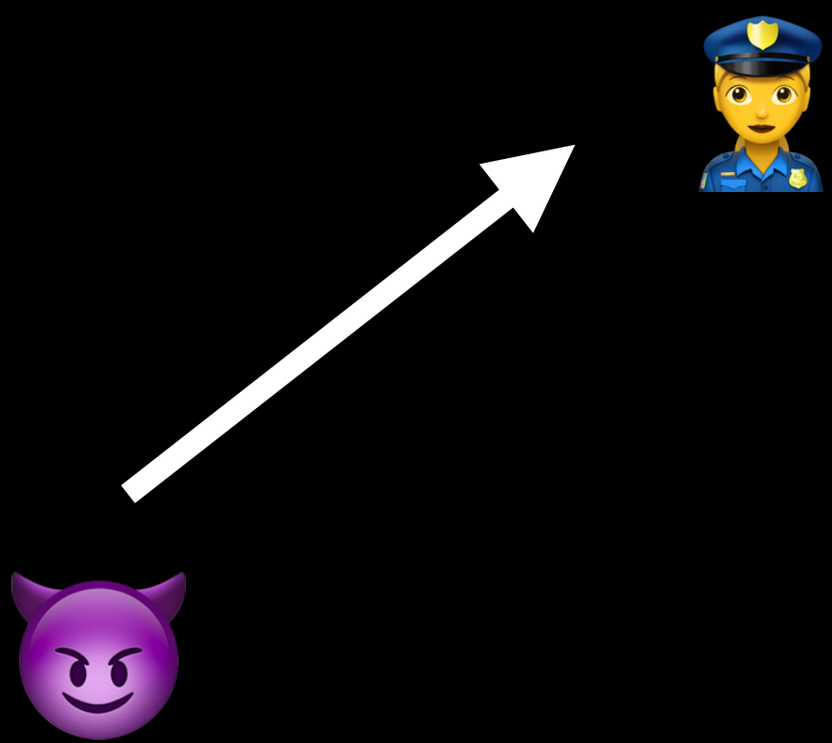
Sprint to Stop Selling Location Data to Third Parties After Motherboard Investigation

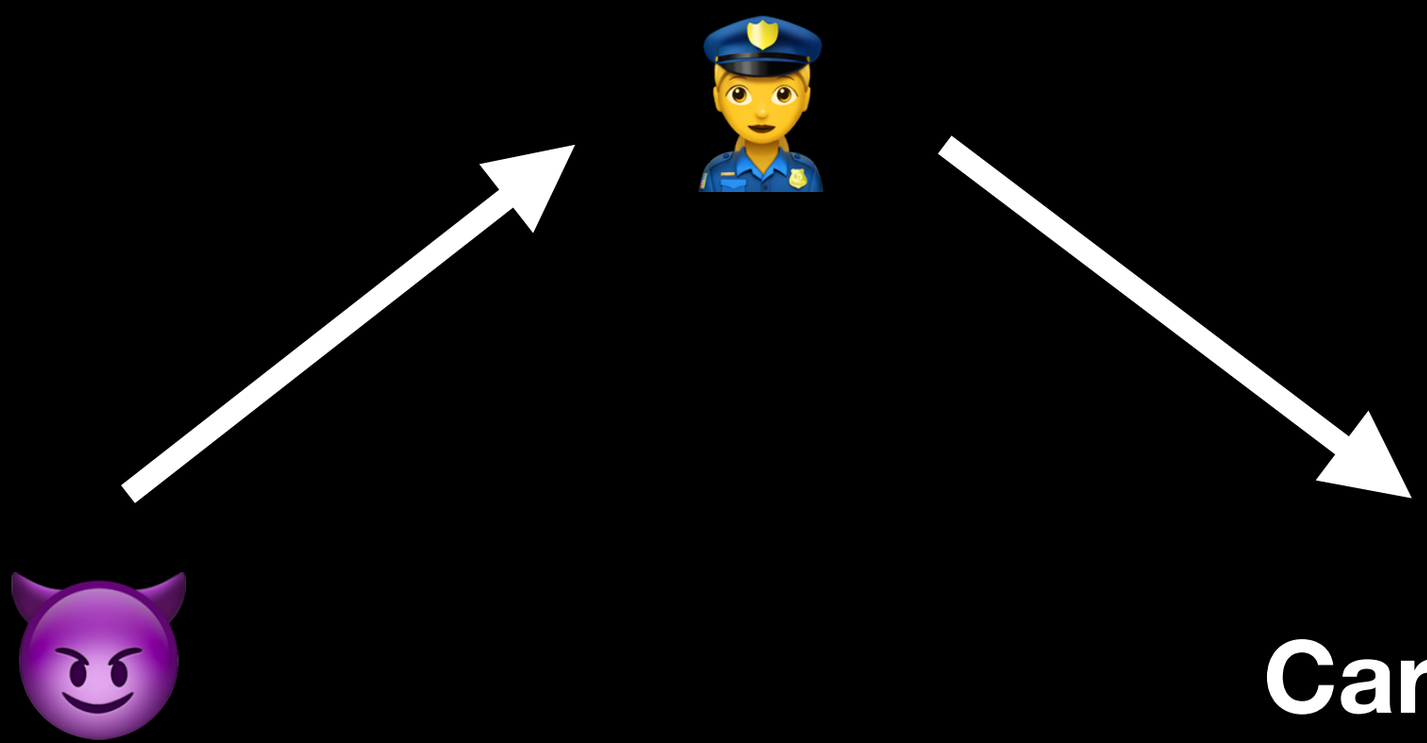
After AT&T and T-Mobile said they would stop selling their customers' phone location data to third parties, Sprint followed suit. A Motherboard investigation found all three telcos selling data that ultimately ended up in the hands of bounty hunters.

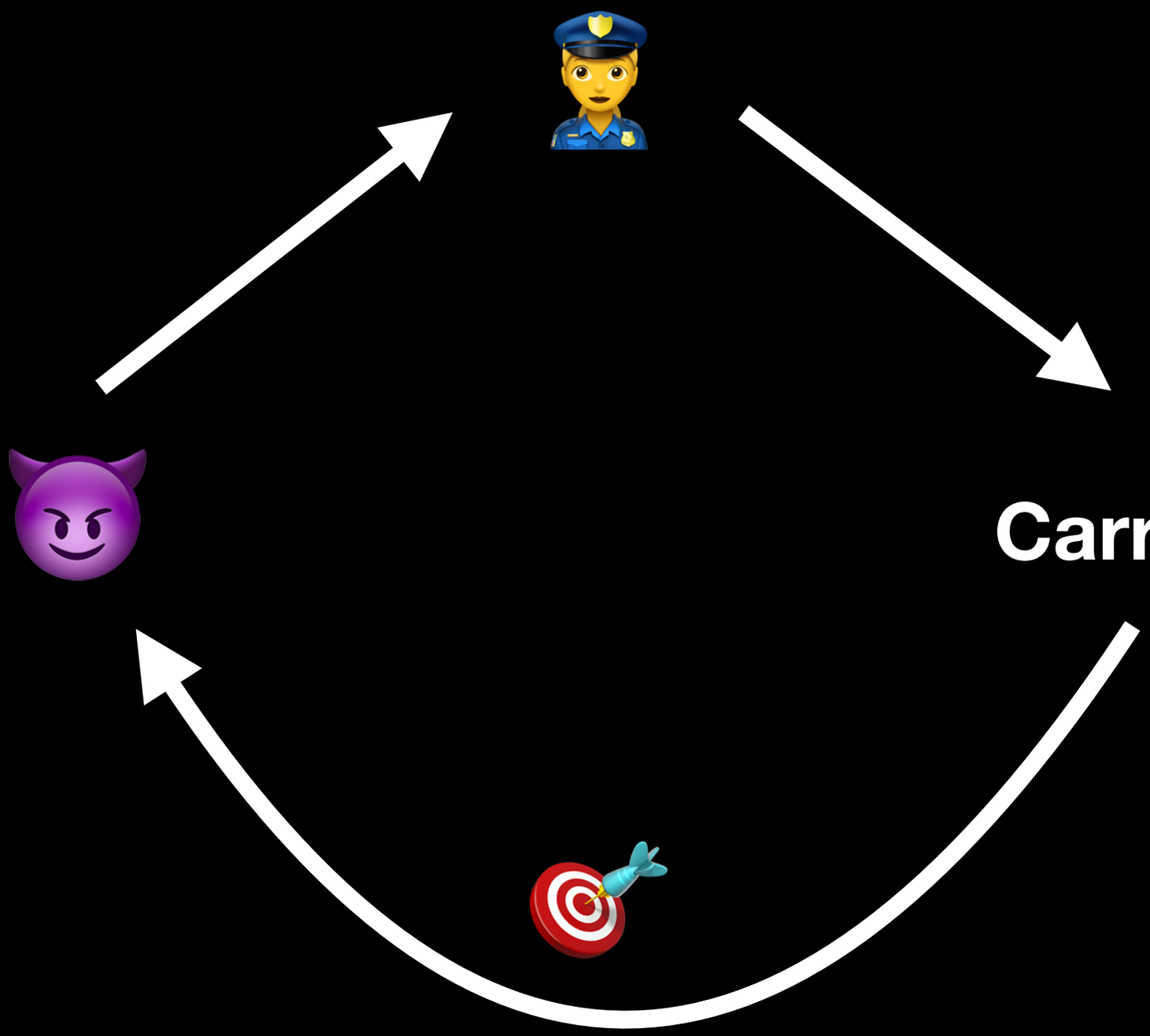
By **Joseph Cox**

But wait, that’s not the end...

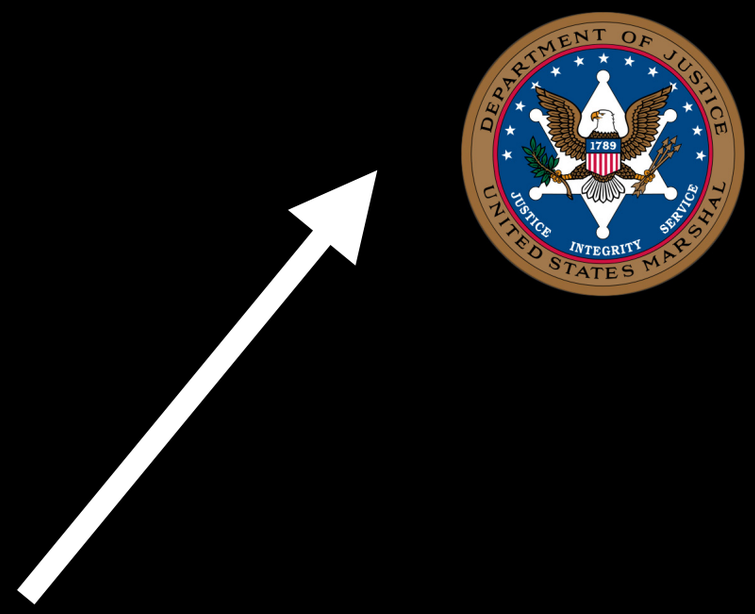




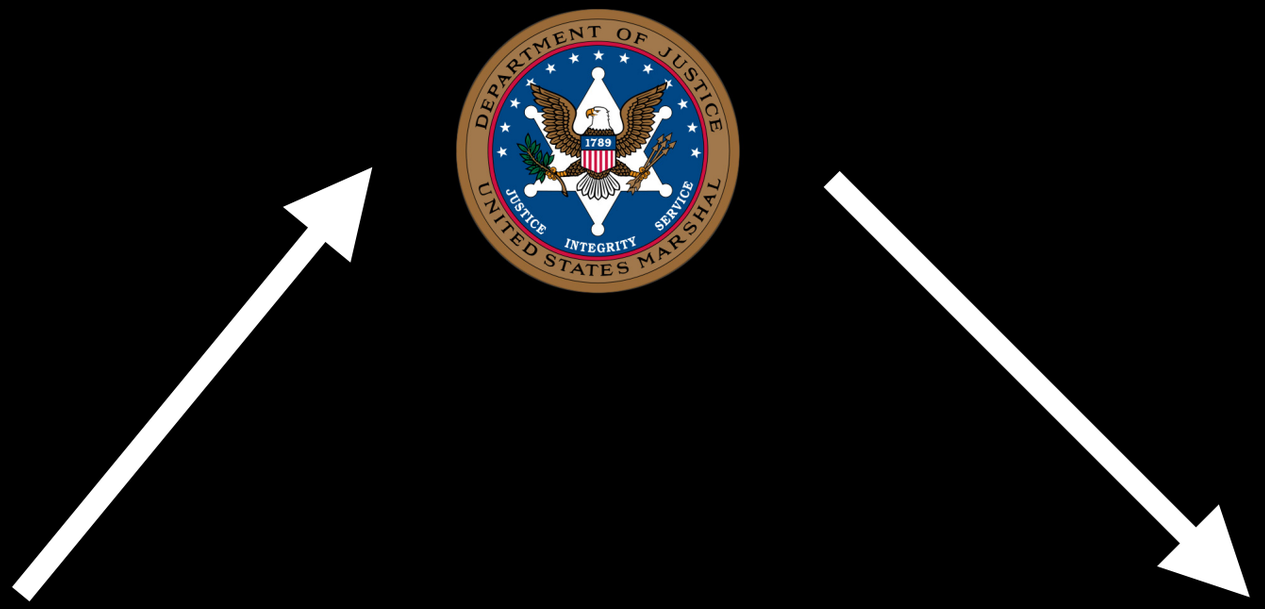

Carriers


Carriers

John Edens



John Edens



John Edens

T · ·Mobile·

John Edens

T · ·Mobile·

Cc: jeff.cromer@gafugitivetaskforce1.net

Location of 404988[redacted] at 10/21/2014 11:14:28 AM Pacific Daylight Time === Result === Lat: [redacted] Lon: [redacted] Uncertainty: 810m https://maps.google.com/maps?q=[redacted]

10:45

Deleted Account
last seen a long time ago

2:28 AM

Ok 2:28 AM

Nite 2:28 AM

484[redacted]

484[redacted]

For right now 2:49 PM

You see that number 2:57 PM

484[redacted] 3:04 PM

484[redacted] Lat [redacted] long [redacted] meters 36 3:19 PM

Thank you 😊 3:19 PM

Pms 3:23 P

[redacted]

Delete this chat

10:47

Deleted Account
last seen a long time ago

Power powered off 11:24 PM

June 12

816-[redacted]

For 11 Pm PST 7:30 PM

June 13

816[redacted] Lat [redacted] long [redacted] meters 36 12:07 AM

Pms 12:23 AM

OK 12:35 AM

Hey 12:13 PM

June 21

580-[redacted]

Delete this chat

You know more about location data, or anything else you think should be published?

Signal: +44 20 8133 5190

Wickr: josephcox

Jabber: jfcox@jabber.ccc.de

Email: joseph.cox@vice.com