

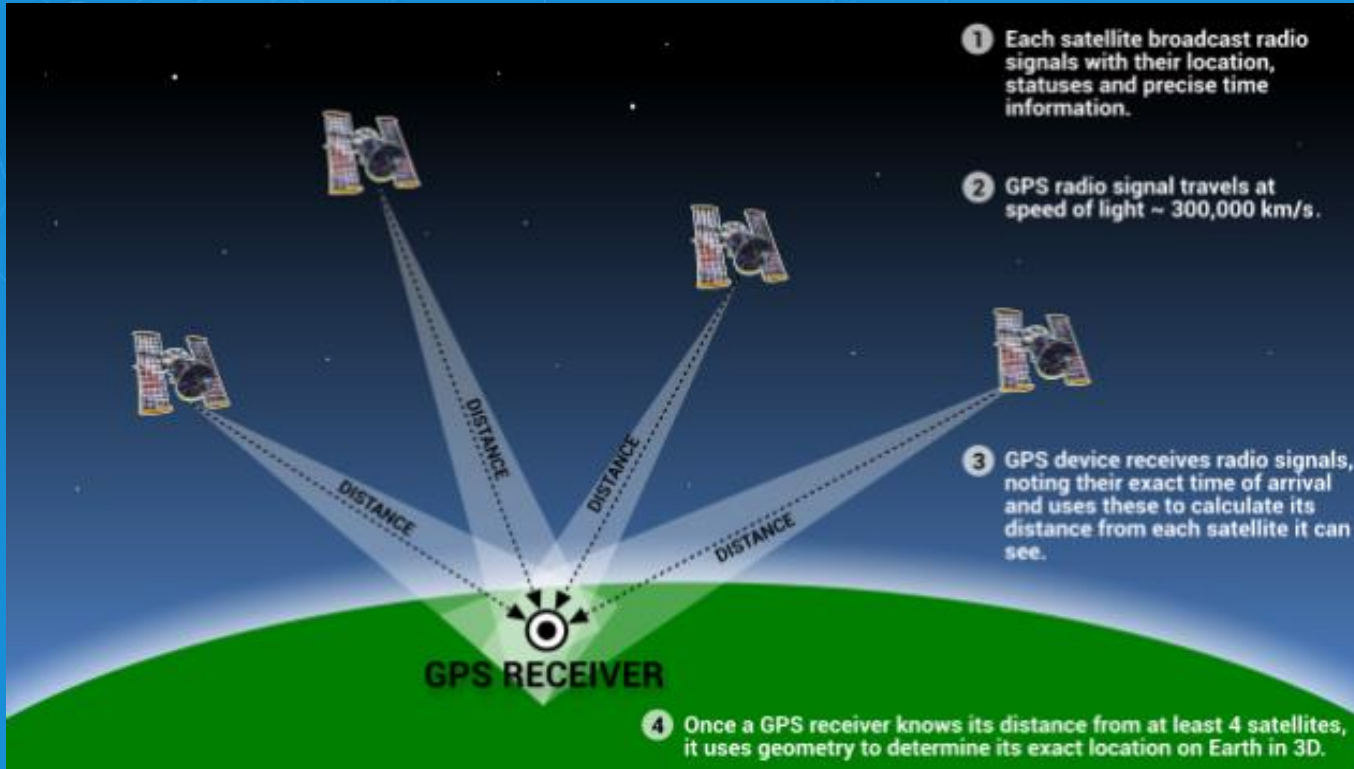
How To Track Without GPS

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Agenda

- ❖ **No GPS, No Problem**
- ❖ **Wialon Settings for LBS**
- ❖ **Understanding LBS Monitoring & Notifications**

Overview of Global Positioning System



Why Use LBS Instead of GPS?

GPS Signal Loss:

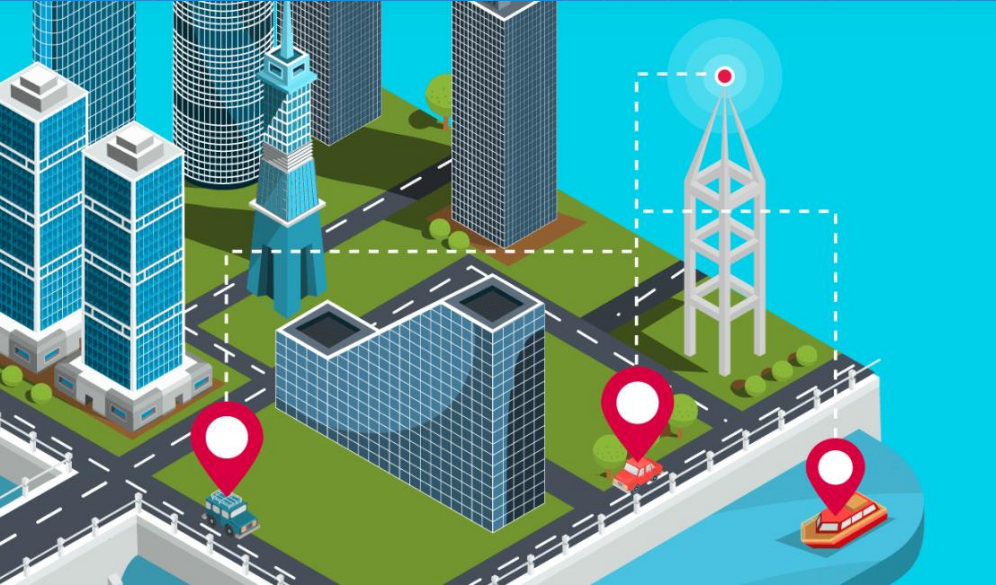
- Dense Metro Areas
- Underground Parking
- Mountains

More Efficient:

- GPS Requires More Power
- Precise Location is Not Needed



What is LBS?



- Location Based Service
- Cross-check base station from device with our database
- Very dependable - Not as accurate

Wialon Settings for LBS

Device should
send at least
4 parameters



- mcc
- mnc
- lac
- cell_id

Time	Speed, mph	Coordinates	Altitude, ft	Location	Parameters
-05-2019 08:28:55 am	0	35.4280578477, -82.5353925892 (0)	3	Boylston Hw	gps_acc=0, mcc=310, mnc=260, lac=14105, cell_id=48412, report_id=0, report_type=0, movement_status=0, battery=99, packet_type=GTNMR
-05-2019 09:00:22 am	---	---	---	---	packet_type=GTPNA
-05-2019 09:00:46 am	0	35.4280578477, -82.5353925892 (0)	3	Boylston Hw	gps_acc=0, mcc=310, mnc=260, lac=14105, cell_id=48412, report_id=0, report_type=0, movement_status=0, battery=99, packet_type=GTNMR
-05-2019 09:00:46 am	0	35.4280578477, -82.5353925892 (0)	3	Boylston Hw	gps_acc=0, <u>mcc=310</u> , <u>mnc=260</u> , <u>lac=14105</u> , <u>cell_id=48412</u> , report_id=0, report_type=0, movement_status=0, battery=99, packet_type=GTSTR
-05-2019 09:11:30 am	---	---	---	---	packet_type=GTPNA
-05-2019 09:12:05 am	0	35.4280578477, -82.5353925892 (0)	3	Boylston Hw	gps_acc=0, mcc=310, mnc=260, lac=14105, cell_id=48412, report_id=0, report_type=0, movement_status=1, battery=99, packet_type=GTCTN
-05-2019 09:19:07 am	0	35.4280578477, -82.5353925892 (0)	3	Boylston Hw	gps_acc=0, mcc=310, mnc=260, lac=14105, cell_id=48412, report_id=0, report_type=0, movement_status=0, battery=99, packet_type=GTNMR
-05-2019 10:00:23 am	---	---	---	---	packet_type=GTPNA
-05-2019 10:00:47 am	0	35.4280578477, -82.5353925892 (0)	3	Boylston Hw	gps_acc=0, mcc=310, mnc=260, lac=14105, cell_id=48412, report_id=0, report_type=0, movement_status=0, battery=99, packet_type=GTNMR
-05-2019 10:00:47 am	0	35.4280578477, -82.5353925892 (0)	3	Boylston Hw	gps_acc=0, mcc=310, mnc=260, lac=14105, cell_id=48412, report_id=0, report_type=0, movement_status=0, battery=99, packet_type=GTSTR
-05-2019 10:27:35 am	---	---	---	---	packet_type=GTPNA
-05-2019 10:28:10 am	0	35.4280578477, -82.5353925892 (0)	3	Boylston Hw	gps_acc=0, mcc=310, mnc=260, lac=14105, cell_id=48412, report_id=0, report_type=0, movement_status=1, battery=99, packet_type=GTCTN
-05-2019 10:35:09 am	0	35.4280578477, -82.5353925892 (0)	3	Boylston Hw	gps_acc=0, mcc=310, mnc=260, lac=14105, cell_id=48412, report_id=0, report_type=0, movement_status=0, battery=99, packet_type=GTNMR

Wialon Settings for LBS

Unit Properties – Topflytech TLD1-A/E 4G

General Access Icon **Advanced** Sensors Custom Fields Unit Groups Commands Eco Driving

Profile Trip Detection Fuel Consumption Service Intervals

Unit label color

Track colors

- By trips
- Single
- By speed
- By sensor

Usage of sensor colors

Monitoring panel: ---

Motion state signs: ---

Battery level: Battery

Message validity filtration

Allow positioning by cellular base stations:

Skip invalid messages:

Minimum satellites:

Maximum HDOP value:

Maximum speed value:

Restore Properties Export to File Cancel OK

secumore_g200

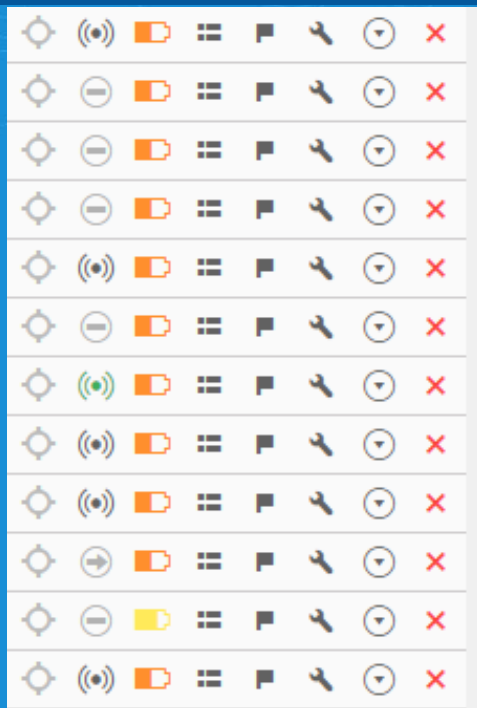
24 s ago (2019-01-14 11:30:08)
Притыцкого ул., Минск, Беларусь

0 km/h 53.9066919267
27.4557583901

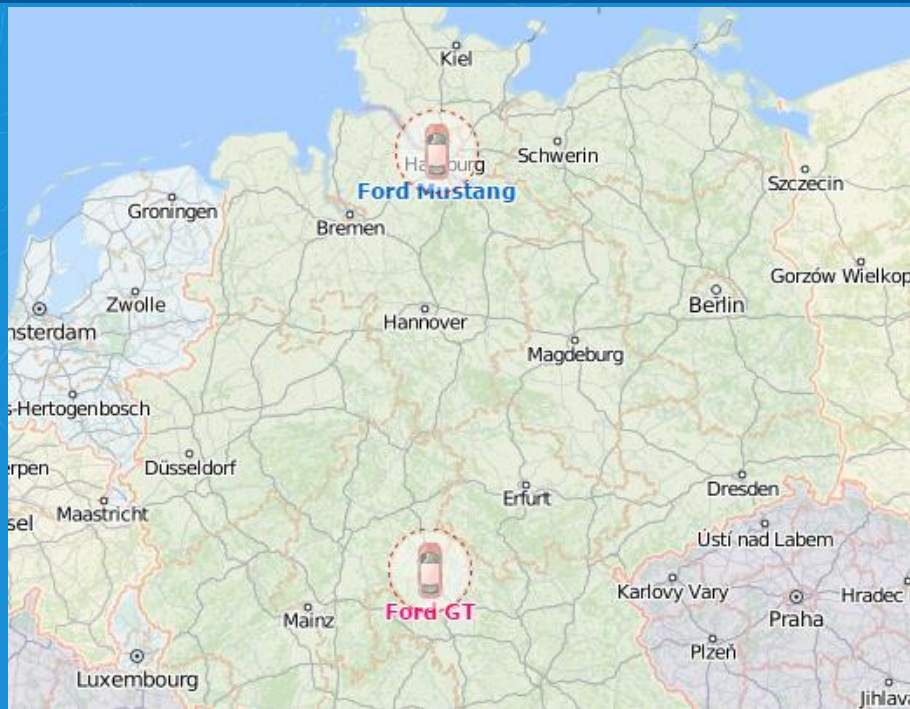
Parameters:

battery: 26	cell_id: 816
cell_id1: 813	cell_id2: 812
cell_id3: 21426	cell_id4: 21425
cell_id5: 2844	cell_id6: 594
fail: 0	gsm: 128
gsm1: 132	gsm2: 125
gsm3: 124	gsm4: 122
gsm5: 121	gsm6: 120
lac: 76	lac1: 76
lac2: 76	lac3: 7
lac4: 7	lac5: 7
lac6: 7	mcc: 257
mcc1: 257	mcc2: 257
mcc3: 257	mcc4: 257
mcc5: 257	mcc6: 257
mnc: 2	mnc1: 2
mnc2: 2	mnc3: 2
mnc4: 2	mnc5: 2
mnc6: 2	rx_level: -92
tr_status: 4227857407	

Understanding LBS Monitoring & Notifications



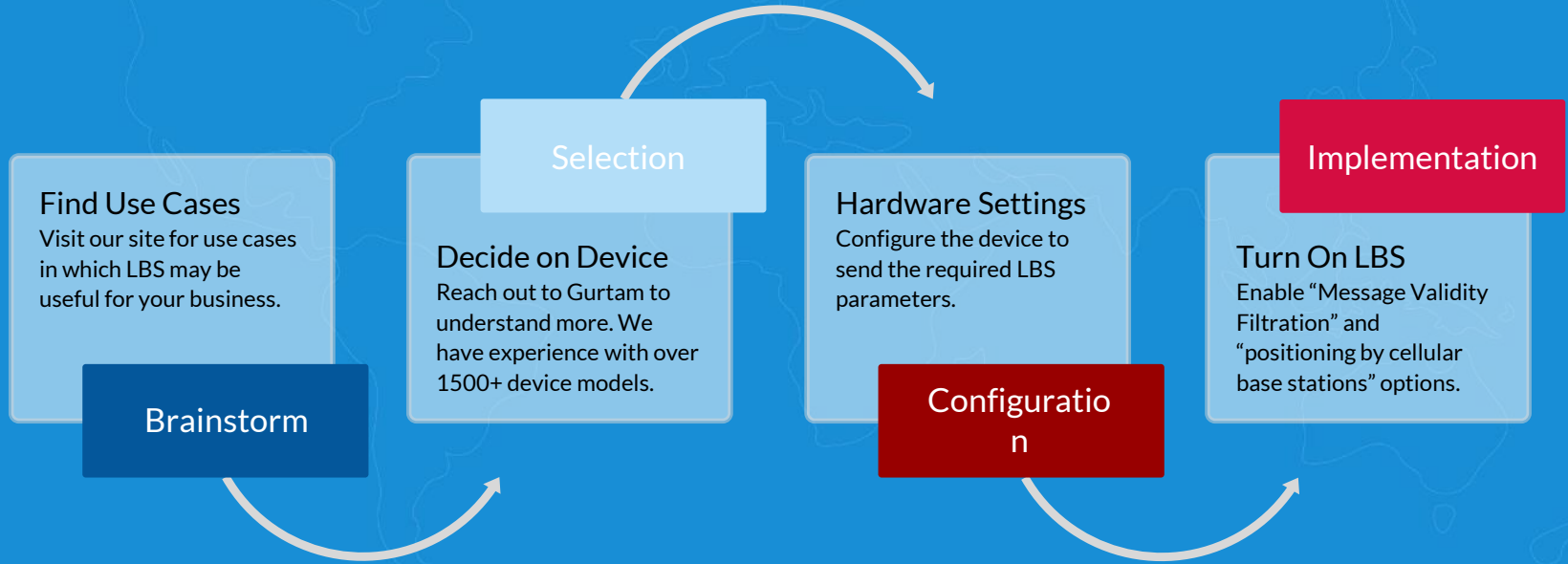
Monitoring Panel




Display on Map

Interested in Trying LBS Tracking?

Follow the Steps





Thank You for Watching!
Any Questions?

Anthony Franklin
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10th anniversary of Gurtam partner conference

Telematics

Partner conference

Minsk, Belarus

July 30 – August 1, 2019

<http://telematix2019.com>