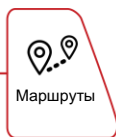


Данные  
Автомобиля



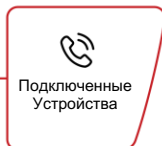
Маршруты



События  
Автомобиля



Гео  
Данные

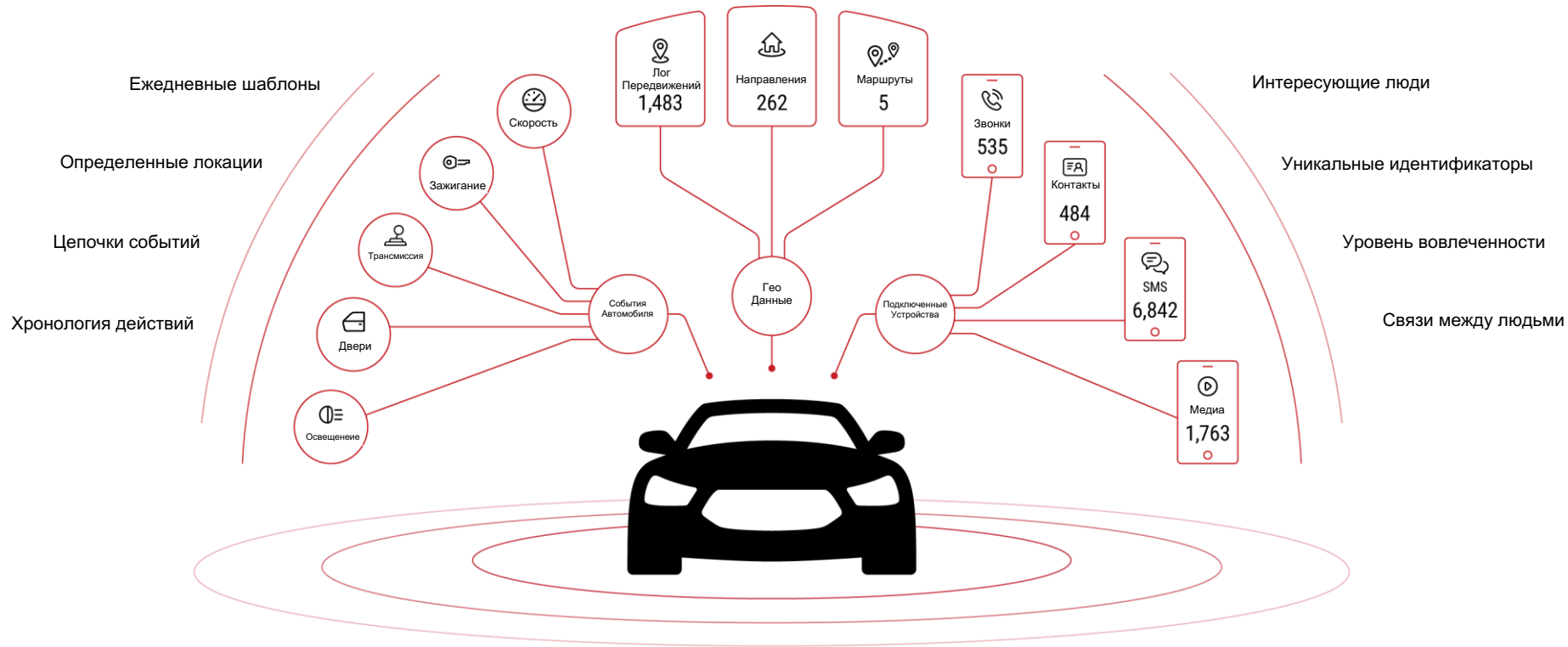


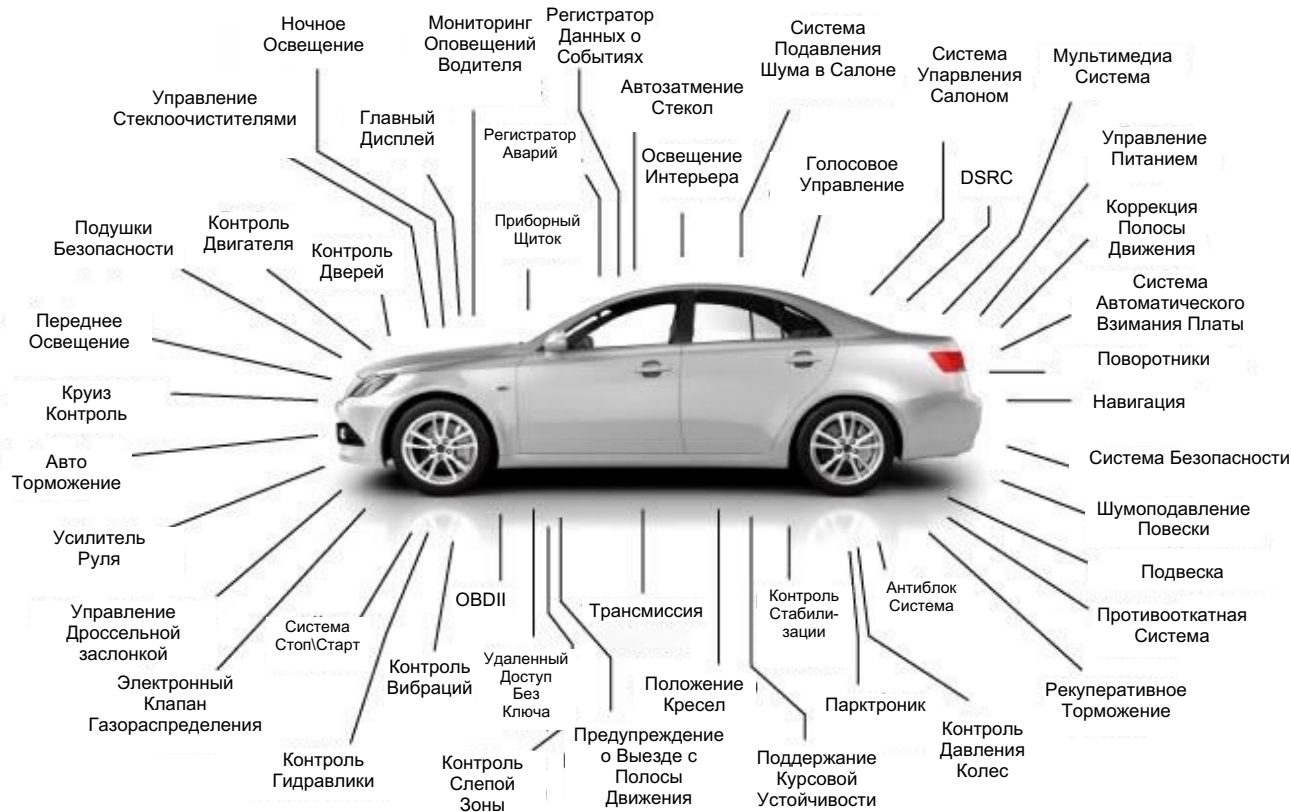
Подключенные  
Устройства



Медиа

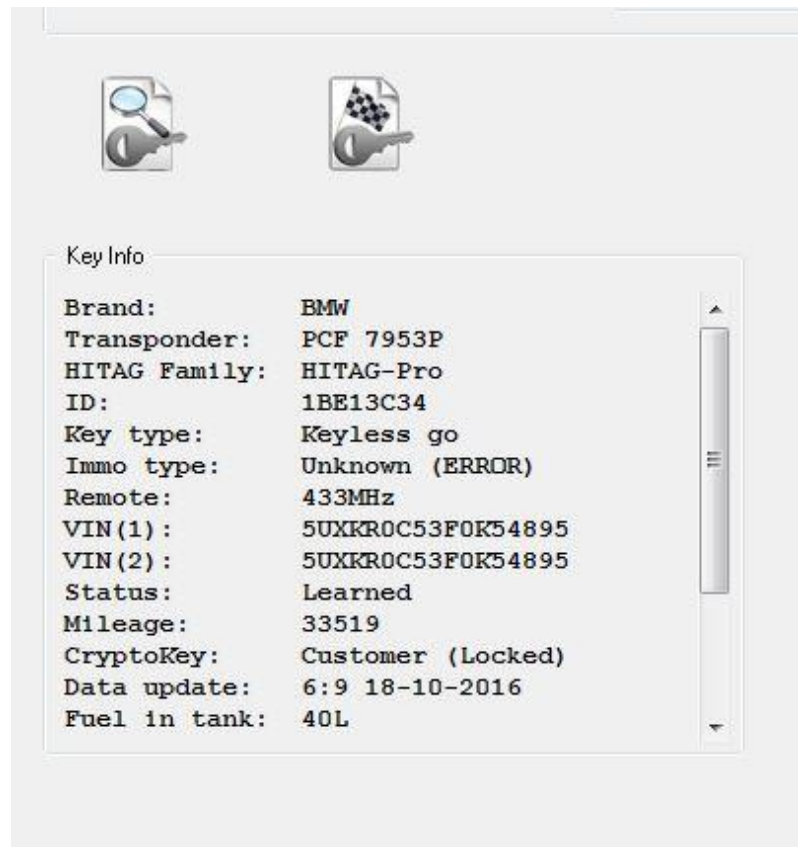
**BERLA**





- BMW Audi

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HITAG,  
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VIN,  
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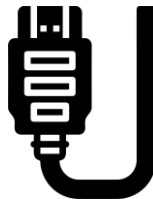


Key Info	
Brand:	BMW
Transponder:	PCF 7953P
HITAG Family:	HITAG-Pro
ID:	1BE13C34
Key type:	Keyless go
Immo type:	Unknown (ERROR)
Remote:	433MHz
VIN (1):	5UXKR0C53F0K54895
VIN (2):	5UXKR0C53F0K54895
Status:	Learned
Mileage:	33519
CryptoKey:	Customer (Locked)
Data update:	6:9 18-10-2016
Fuel in tank:	40L

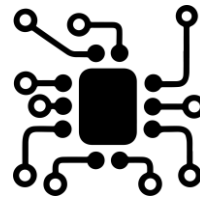


USB-

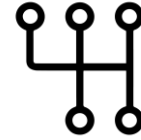
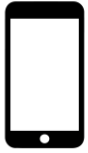
USB-



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USB,

Wi-Fi, Bluetooth /

# Bluetooth

- BT MAC

The screenshot shows the iVe - Infotainment & Vehicle System Forensics interface. The left sidebar contains navigation options: Systems, Content, Tags, Search, and Timeline. The main content area displays a tree view of systems, with '2018 Example' selected. Under '2018 Example', the 'Devices' folder is expanded to show 'Franks iphone'. The right pane displays a table of metadata for this device.

Key	Value
msid	1
btdeviceid	1
fs_type	A2DP
swversion	
model	
vendorid	0x004c
productid	0x6f02
device_id	
device_version	
mountpath	
db_filename	
db_loaded	0
attached	0
active_onshutdown	0
indexed	0
remote	0
SupportedProfiles	HFP 0.0, PBAP 0.0, A2DP 0.0, AVRCP 1.4, MAP 0.0
BRSF value available	
CHLD capabilities = Three way calling Enabled	
Phonebook Download Support	PBAPPin-BandRinging supported
Service Supported	3591
subscriberNum	3037755680
networkName	VrznWrts
deviceSoftwareVersion	Version 10.2.1 (Build 14D27)
Class Of Device	0x0c:02:7a

iVe - Infotainment & Vehicle System Forensics

File View Tools Ben LeMere 3 ?

2018 Example  
Sync Gen3

Systems  
Content  
Tags  
Search  
Timeline

- Applications
- Connections
- Devices (6)
  - <UNKNOWN>, SanDisk
  - Franks iphone
  - Franks iphone
  - Mobile\_Device\_1\_BT
    - Contacts (170)
    - Call Logs (23)
    - Unwired Technology
    - Unwired Technology
  - Events (3749)
    - Media (3)
    - Device (371)
    - System Information (12)
    - Door (361)
    - Driver Distraction Prevention
    - Gear Shift (837)
    - Seat Belt (324)
    - Power (104)
    - Odometer (894)
    - Valet Mode (104)
    - Reboot (1)
    - Wheel Traction (2)
    - Hard Acceleration (7)

	Start Time	Timestamp Type	Flags	Timestamp Confidence	Phone Number	Contact Name	Call Type
🔍	3/21/2017 4:00:49 PM	Local		Medium	+17204940319		Outgoing
🔍	3/21/2017 4:09:08 PM	Local		Medium	+17204940319		Incoming
🔍	3/21/2017 4:31:34 PM	Local		Medium	3035797697	Marc	Outgoing
🔍	3/22/2017 8:03:09 AM	Local		Medium	+13035790990	Jared Papini	Incoming
🔍	3/22/2017 9:01:48 AM	Local		Medium	+17198968248		Incoming
🔍	3/22/2017 10:42:19 AM	Local		Medium	+13035797697	Marc	Incoming
🔍	3/22/2017 10:53:30 AM	Local		Medium	+19708461802	Dave	Outgoing
🔍	3/22/2017 10:57:22 AM	Local		Medium	+19708461802	Dave	Incoming
🔍	3/22/2017 10:59:20 AM	Local		Medium	+13035797697	Marc	Incoming
🔍	3/22/2017 11:05:21 AM	Local		Medium	+19708461802	Dave	Incoming
🔍	3/22/2017 12:59:56 PM	Local		Medium	+19704433359	Scott W	Incoming
🔍	3/22/2017 1:06:37 PM	Local		Medium	+13035796388	Judson	Incoming
🔍	3/23/2017 7:46:01 AM	Local		Medium	7205307083	Bob	Outgoing
🔍	3/23/2017 7:59:39 AM	Local		Medium	+13035790990	Jared Papini	Incoming
🔍	3/23/2017 8:41:04 AM	Local		Medium	9708461802	Dave	Outgoing
🔍	3/23/2017 9:56:45 AM	Local		Medium	3035796366	Scott	Outgoing
🔍	3/23/2017 10:16:23 AM	Local		Medium	9705773601	Phil Ball	Outgoing
🔍	3/23/2017 10:19:05 AM	Local		Medium	16204733664		Outgoing
🔍	3/23/2017 10:22:56 AM	Local		Medium	3035797697	Marc	Outgoing
🔍	3/23/2017 10:25:24 AM	Local		Medium	16204733664		Outgoing
🔍	3/23/2017 10:26:32 AM	Local		Medium	+19708461802	Dave	Missed
🔍	3/23/2017 10:28:01 AM	Local		Medium	+19708469878	Joann Hanks	Missed
🔍	3/23/2017 10:33:11 AM	Local		Medium	+19708469878	Joann Hanks	Outgoing



iVe - Infotainment & Vehicle System Forensics

File View Tools

Ben LeMere 3

2018 Example  
Sync Gen3

Systems

Content

Tags

Search

Timeline

- Applications
- Connections
- Devices (6)
  - <UNKNOWN>, SanDisk
  - Franks iphone
  - Franks iphone
  - Mobile\_Device\_1\_BT
- Contacts (170)
  - Call Logs (23)
  - Unwired Technology
  - Unwired Technology
- Events (3749)
  - Media (3)
  - Device (371)
  - System Information (12)
  - Door (361)
  - Driver Distraction Prevention
  - Gear Shift (837)
  - Seat Belt (324)
  - Power (104)
  - Odometer (894)
  - Valet Mode (104)
  - Reboot (1)
  - Wheel Traction (2)
  - Hard Acceleration (7)

Flags	First Name	Last Name	Company	Phone	Work Number	Home Number	Mobile Number
	My Number						3037755680
	Ackerman Exavating					(303)747-2548	
	Amy						7202171655
	Andrew						3038426698
	Atlas	James Frey			(970)214-4892		
	B G Equipment						(970) 352-9141
	Bill	H					7203208147
	Bill	Landscape					3039566061
	Billy Vinson						(303) 809-4219
	Bob						7205307083
	Bob	Juhl					3033598284
	Bob	Mulder					7205307083
	Boulder And White Rock Ditch And Reservoir Company						
	Boulder	White					3037767207
	Boyd						7202200137
	Brenda					3036519075	
	Brooke	Papini					(970) 355-9370
	Browns Equipment						1 (307) 322-2525
	Centennial Livestock						(970) 482-6207
	Century	rv					3034531111
	cheryl	Hanks					3037751572
	Choice	H Fxh92.6					
	Clara						(970)577-2727

# SMS

The screenshot shows a forensic application window titled "Ive - Infotainment & Vehicle System Forensics". The interface includes a menu bar (File, View, Tools), a sidebar with navigation options (Systems, Content, Tags, Search, Timeline), and a main content area. The main area displays a list of SMS messages for a Ford Sync Gen2 device. The selected message is from "Lois" with the body text "Really send it to me. That's fine with". Below the list is a map showing the location of the messages, with a cluster of red dots near Minneapolis, MN. The map includes a search bar and a search icon.

Name	Date/Time	Times	Timestamp Confir	To	From	Body
Compass Alerts Missy	12/18/2014 2	Local	High		40637	
Compass Alerts Missy	12/18/2014 2	Local	High		40637	You are blessed. Good Night!
Compass Alerts Missy	12/18/2014 2	Local	High		40637	I figure you may fall asleep with J&J
Compass ALERTS - J C	12/18/2014 2	Local	High		25197	I also just noticed that are arrival tim
Compass ALERTS - J C	12/18/2014 2	Local	High		25197	My Most Precious Tricia: I'm not pos
Compass JANA	12/18/2014 2	Local	High		41461	I did, she decided to keep it. Someone
Lois	12/18/2014 2	Local	High		50753	Really send it to me. That's fine with
Compass Alerts Missy	12/18/2014 2	Local	High		40637	We are all heading HOME at halftime
Compass Alerts Missy	12/18/2014 2	Local	High		40637	I do love you! ❤️
Compass Alerts Missy	12/18/2014 2	Local	High		40637	No, he headed home. I asked if he ne

SMS

SMS

SMS

Uve - Infotainment & Vehicle System Forensics

File View Tools Hashing... ?

**Systems**

**Content**

Tags

Search

Timeline

**Ford**  
Sync Gen2

- Applications
- ▼ Connections
- ▼ Devices (2)
- ^ Events (454)
  - Odometer (62)
  - Gear Shift (144)
  - Door (109)
  - Parking Lights (113)
  - Phone (14)
  - USB (9)
  - Reboot (3)
- ^ Navigation
  - ▼ Track Logs (110)
  - Locations (30)**
  - Routes
  - ▼ Velocity Logs (97)

		Name	Date/Time	Timestamp Type	Latitude	Longitude	Flags	Timestamp
		My Home		UTC	44.273120000	-93.775140000	Favorite	
		4300 Glumack Dr		UTC	44.882600000	-93.206150000	Favorite	
		18956 68th Ave N		UTC	45.078640000	-93.520420000	Favorite	
		401 S Hill St		UTC	44.445770000	-95.778480000	Favorite	
		1517 16th St SW		UTC	44.002070000	-92.487070000	Favorite	
		1406 2nd St SW		UTC	44.021640000	-92.484150000	Favorite	
		7360 GALLAGHER DR		UTC	44.870150000	-93.331560000	Favorite	
		725 Vineland Pl		UTC	44.968880000	-93.288930000	Favorite	
		3501 Minnesota Dr		UTC	44.862240000	-93.324420000	Favorite	
		Holiday Inn-New Ulm		UTC	44.291880000	-94.439000000	Previous	

Map controls: OpenStreetMaps

46.84354454233348, -88.7495686732186

2018 Example  
Sync Gen3

- Systems
- Content**
- Applications
- Connections
- Devices (6)
- Events (3749)
- Navigation
  - Track Logs (72)**
  - Locations
  - Routes
  - Velocity Logs (103)

		Name	Start Time	End Time	Timestamp Type	Flags	Timestamp Confidence	Elapsed Time	Distance	A
		Track 0078	3/23/2017 12:50:57 PM	3/23/2017 12:53:40 PM	Local		Medium	2m 43.1s	32.2 ft	0
		Track 0079	3/23/2017 1:05:04 PM	3/23/2017 1:22:39 PM	Local		Medium	17m 35.09s	8.9 mi	3
		Track 0080	3/23/2017 2:25:39 PM	3/23/2017 2:51:28 PM	Local		Medium	25m 48.6s	54.8 mi	1
		Track 0081	3/23/2017 3:06:16 PM	3/23/2017 3:08:54 PM	Local		Medium	2m 38.12s	0.2 mi	3
		Track 0082	3/23/2017 3:50:34 PM	3/23/2017 3:50:59 PM	Local		Medium	25.06s	0.1 mi	1
		Track 0083	3/23/2017 4:08:04 PM	3/23/2017 4:44:21 PM	Local		Medium	36m 17.1s	19 mi	3
		Track 0084	3/23/2017 4:52:12 PM	3/23/2017 5:00:21 PM	Local		Medium	8m 9.14s	3.7 mi	2
		Track 0085	3/24/2017 6:49:52 AM	3/24/2017 6:52:38 AM	Local		Medium	2m 45.12s	34.5 ft	0
		Track 0086	3/24/2017 1:01:53 PM	3/24/2017 2:05:58 PM	Local		Medium	1h 4m 5.11s	47.5 mi	4
		Track 0087	3/24/2017 2:20:13 PM	3/24/2017 2:21:25 PM	Local		Medium	1m 12.12s	0.1 mi	4

OpenStreetMaps

39.8461579459125, -106.139970713564

ive - Infotainment & Vehicle System Forensics

File View Tools Ben LeMere 3 ?

2018 Example Sync Gen3

+ ADD ENTRY

Systems Content Tags Search Timeline

DATE & TIME RANGE

Between

and

Apply Date Filter

DATA TYPE

- System Information
- Door
- Driver Distraction Preventio
- Gear Shift
- Track
- Seat Belt
- Power
- Odometer
- Valet Mode
- Device
- Reboot
- Wheel Traction
- Hard Acceleration
- Media
- Call Log
- Hard Braking

6:28:45 AM(Local) Wednesday, Mar 22, 2017  
**Power On**

6:28:52 AM(Local) Wednesday, Mar 22, 2017  
**Device Device Connected**

6:28:53 AM(Local) Wednesday, Mar 22, 2017  
**Valet Mode Disabled**

6:28:53 AM(Local) Wednesday, Mar 22, 2017  
**Door Closed**

6:28:55 AM(Local) Wednesday, Mar 22, 2017  
**Gear Shift to Reverse**

6:28:55 AM(Local) Wednesday, Mar 22, 2017  
**Seat Belt is buckled and/or detection activated**

File View Tools

- 2018 Example**  
Sync Gen3
- Systems
  - Content**
  - Tags
  - Search
  - Timeline
  - Applications
  - Connections
  - Devices (6)
  - Events (3749)
    - Media (3)
    - Device (371)
    - System Information (12)
    - Door (361)**
    - Driver Distraction Prevention (7)
    - Gear Shift (837)
    - Seat Belt (324)
    - Power (104)
    - Odometer (894)
    - Valet Mode (104)
    - Reboot (1)
    - Wheel Traction (2)
    - Hard Acceleration (7)
    - Hard Braking (4)
  - Navigation

		Date/Time	Timestamp Type	Event Identifier	Event Type	Action	Latitude	Longitude	Flags	Timestamp Conf
		3/1/2017 1:23:52 PM	Local	Driver Door Open	Door	Open	NaN	NaN		Medium
		3/1/2017 6:21:34 PM	Local	Driver Door Open	Door	Open	38.188082000	-85.682788000		Medium
		3/1/2017 11:22:02 PM	Local	Driver Door Closed	Door	Closed	38.188082000	-85.682788000		Medium
		3/3/2017 10:19:20 AM	Local	Driver Door Closed	Door	Closed	38.188112000	-85.682728000		Medium
		3/3/2017 10:20:27 AM	Local	Driver Door Open	Door	Open	38.189697000	-85.682082000		Medium
		3/3/2017 10:20:52 AM	Local	Driver Door Closed	Door	Closed	38.189699000	-85.682108000		Medium
		3/10/2017 4:27:02 PM	Local	Driver Door Open	Door	Open	39.877051000	-104.887961000		Medium
		3/10/2017 4:27:34 PM	Local	Driver Door Closed	Door	Closed	39.877055000	-104.888003000		Medium
		3/10/2017 9:24:47 PM	Local	Passenger Door Op	Door	Open	38.189699000	-85.682110000		Medium
		3/10/2017 9:24:51 PM	Local	Driver Door Closed	Door	Closed	38.189699000	-85.682110000		Medium

OpenStreetMaps

39.8461579459125, -106.139970713564

The map displays the Denver, Colorado area with several green circular markers indicating event locations. The markers are clustered in the downtown Denver area, specifically around the Longmont, Boulder, and Golden neighborhoods. The map includes labels for various landmarks and areas such as Hot Sulphur Springs, Indian Peaks Wilderness Area, Arapaho National Forest, and several residential areas like Golden, Aurora, and Centennial.

iVe - Infotainment & Vehicle System Forensics

File View Tools

Ben LeMere 3 ?

**2018 Example**  
Sync Gen3

Systems

**Content**

Tags

Search

Timeline

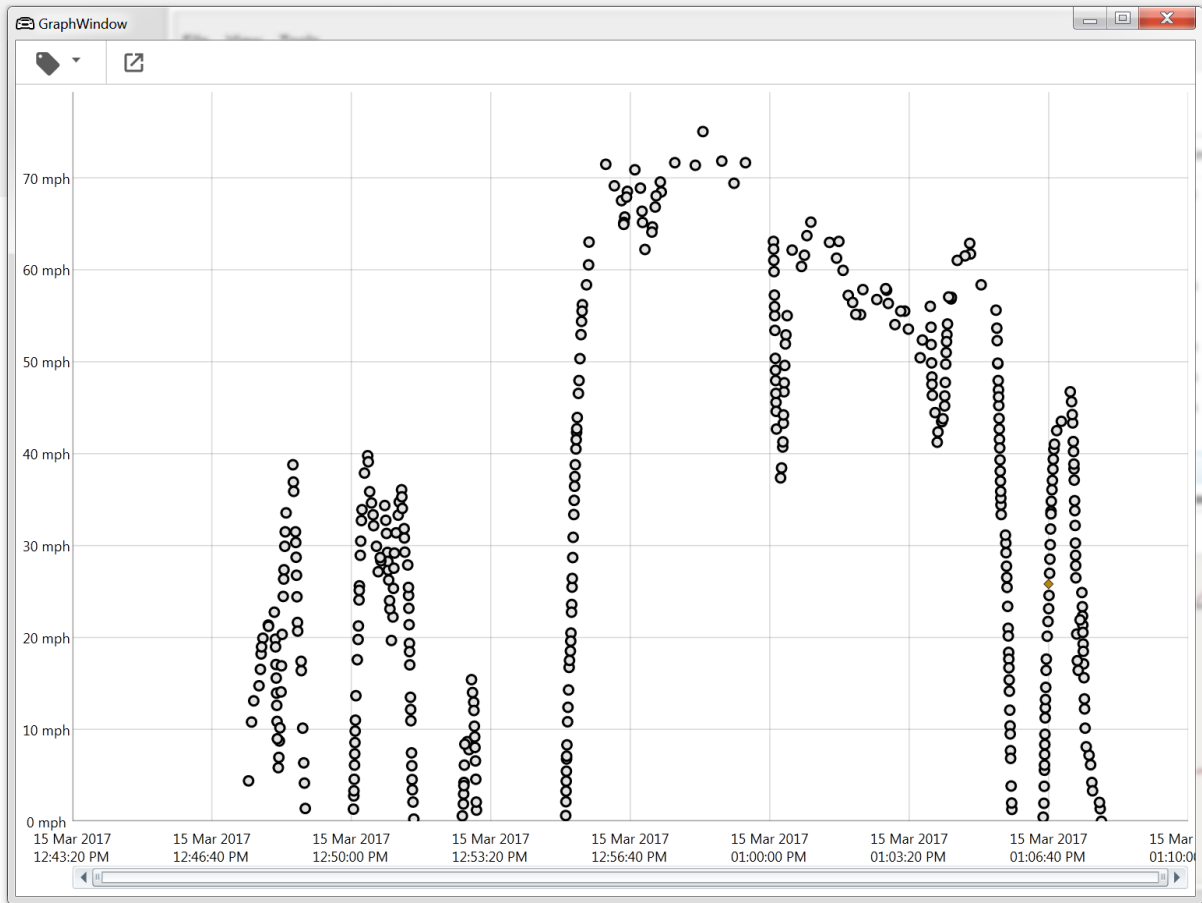
**Applications**

- ↳ Connections
- ↳ Devices (6)
- ↳ Events (3749)
  - Media (3)
  - Device (371)
  - System Information (12)
  - Door (361)
  - Driver Distraction Prevention (7)
  - Gear Shift (837)**
  - Seat Belt (324)
  - Power (104)
  - Odometer (894)
  - Valet Mode (104)
  - Reboot (1)
  - Wheel Traction (2)
  - Hard Acceleration (7)
  - Hard Braking (4)
- ↳ Navigation

	📍	📄	Date/Time	Timestamp Type	Event Identifier	Event Type	Action	Latitude	Longitude	Flags	Tir
	📍	📄	3/1/2017 1:24:02 PM	Local	Gear Shift to Park (0)	Gear Shift	to Park (0)	NaN	NaN		Me
	📍	📄	3/1/2017 1:24:02 PM	Local	Gear Shift to Parking	Gear Shift	to Parking	NaN	NaN		Me
	📍	📄	3/3/2017 10:19:20 AM	Local	Gear Shift to Drive	Gear Shift	to Drive	38.188112000	-85.682728000		Me
	📍	📄	3/3/2017 10:19:20 AM	Local	Gear Shift to OverDrive (3)	Gear Shift	to OverDrive (3)	38.188112000	-85.682728000		Me
	📍	📄	3/3/2017 10:20:36 AM	Local	Gear Shift to Neutral (2)	Gear Shift	to Neutral (2)	38.189698000	-85.682104000		Me
	📍	📄	3/3/2017 10:20:36 AM	Local	Gear Shift to Neutral	Gear Shift	to Neutral	38.189698000	-85.682104000		Me
	📍	📄	3/3/2017 10:20:36 AM	Local	Gear Shift to Reverse (1)	Gear Shift	to Reverse (1)	38.189698000	-85.682104000		Me
	📍	📄	3/3/2017 10:20:36 AM	Local	Gear Shift to Reverse	Gear Shift	to Reverse	38.189698000	-85.682104000		Me
	📍	📄	3/3/2017 10:20:36 AM	Local	Gear Shift to Park (0)	Gear Shift	to Park (0)	38.189698000	-85.682104000		Me
	📍	📄	3/3/2017 10:20:36 AM	Local	Gear Shift to Parking	Gear Shift	to Parking	38.189698000	-85.682104000		Me

📍 📄 🗺️ 📍 🗑️ 🚩 📄 📷 OpenStreetMaps 🔍

39.8757608551754, -103.951889486682



10



iVe - Infotainment & Vehicle System Forensics

File View Tools

Ben LeMere 3 ?

2018 Example  
Sync Gen3

- Systems
- Content**
- Tags
- Search
- Timeline

Applications

- Connections
- Devices (6)
- Events (3749)
  - Media (3)
  - Device (371)
  - System Information (12)
  - Door (361)
  - Driver Distraction Prevention (7)
  - Gear Shift (837)
  - Seat Belt (324)
  - Power (104)
  - Odometer (894)
  - Valet Mode (104)
  - Reboot (1)
  - Wheel Traction (2)
  - Hard Acceleration (7)**
  - Hard Braking (4)
- Navigation
  - Track Logs (72)
  - Locations
  - Routes
  - Velocity Logs (103)

Date/Time	Timestamp Type	Event Identifier	Event Type	Action
3/16/2017 10:58:14 AM	Local	Hard Acceleration: Wheel speed = 16.5 MPH, Accel = 0.38 G's (implied)	Hard Acceleration	Above 0.35 C
3/17/2017 4:56:25 PM	Local	Hard Acceleration: Wheel speed = 43.3 MPH, Accel = 0.58 G's (implied)	Hard Acceleration	Above 0.35 C
3/17/2017 4:56:25 PM	Local	Hard Acceleration: Wheel speed = 45.0 MPH, Accel = 0.49 G's (implied)	Hard Acceleration	Above 0.35 C
3/17/2017 5:20:05 PM	Local	Hard Acceleration: Wheel speed = 9.2 MPH, Accel = 0.41 G's (implied)	Hard Acceleration	Above 0.35 C
3/19/2017 3:32:40 PM	Local	Hard Acceleration: Wheel speed = 31.4 MPH, Accel = 0.43 G's (implied)	Hard Acceleration	Above 0.35 C
3/23/2017 12:18:34 PM	Local	Hard Acceleration: Wheel speed = 36.1 MPH, Accel = 0.91 G's (implied)	Hard Acceleration	Above 0.35 C
3/24/2017 1:44:15 PM	Local	Hard Acceleration: Wheel speed = 32.9 MPH, Accel = 0.81 G's (implied)	Hard Acceleration	Above 0.35 C

OpenStreetMaps

40.1586780977227, -106.091256474747

- 2018 Example** Symc Gen3
- Systems
  - Content**
  - Tags
  - Search
  - Timeline
  - Applications
  - Connections
  - Devices (6)
  - Events (3749)
    - Media (3)
    - Device (371)
    - System Information (12)
    - Door (361)
    - Driver Distraction Prevention (7)
    - Gear Shift (837)
    - Seat Belt (324)
    - Power (104)
    - Odometer (894)
    - Valet Mode (104)
    - Reboot (1)
    - Wheel Traction (2)
    - Hard Acceleration (7)
    - Hard Braking (4)**
  - Navigation
    - Track Logs (72)
    - Locations
    - Routes
    - Velocity Logs (103)

		Date/Time	Timestamp Type	Event Identifier	Event Type	Action	Latitude
		3/23/2017 6:25:47 AM	Local	Hard Braking: Wheel speed = 31.5 MPH, Decel = -0.45 G's (implied)	Hard Braking	Above -0.45 G's	40.13
		3/23/2017 6:25:48 AM	Local	Hard Braking: Wheel speed = 24.5 MPH, Decel = -0.46 G's (implied)	Hard Braking	Above -0.45 G's	40.13
		3/23/2017 6:25:48 AM	Local	Hard Braking: Wheel speed = 23.2 MPH, Decel = -0.52 G's (implied)	Hard Braking	Above -0.45 G's	40.13
		3/24/2017 1:44:15 PM	Local	Hard Braking: Wheel speed = 30.2 MPH, Decel = -0.52 G's (implied)	Hard Braking	Above -0.45 G's	39.69

OpenStreetMaps

40.1586780977227, -106.091256474747

iVe - Infotainment & Vehicle System Forensics

File View Tools

Ben LeMere 3 ?

**2018 Example**  
Sync Gen3

- Systems
- Content**
  - Applications
  - Connections
  - Devices (6)
  - Events (3749)
    - Navigation
      - Track Logs (72)
        - Locations
        - Routes
        - Velocity Logs (103)
  - Tags
  - Search
  - Timeline

← Back

		Date/Time	Timestamp Type	Event Identifier	Event Type	Action
		3/16/2017 10:43:05 AM	Local	ECU Powered ON / rebooted	Power	On
		3/16/2017 10:43:13 AM	Local	Valet Mode disabled	Valet Mode	Disabled
		3/16/2017 10:43:13 AM	Local	Driver Door Closed	Door	Closed
		3/16/2017 10:43:14 AM	Local	Driver Distraction Prevention Disabled	Driver Distraction Prevention	Disabled
		3/16/2017 10:43:14 AM	Local	Seatbelt Reminder is True	Seat Belt	is buckled and/or detection acti
		3/16/2017 10:43:20 AM	Local	Gear Shift to Reverse (1)	Gear Shift	to Reverse (1)
		3/16/2017 10:43:20 AM	Local	Gear Shift to Reverse	Gear Shift	to Reverse
		3/16/2017 10:43:21 AM	Local	Gear Shift to OverDrive (3)	Gear Shift	to OverDrive (3)

OpenStreetMaps

39.9135890710535, -105.152802434088