



Evidence Solutions, Inc.

And the

Texas Trial Lawyers Association

Present:

Digital Forensics in Trucking & Vehicle Cases

February 18, 2018

Bourbon Orleans Hotel  
New Orleans Louisiana

Presented by:  
Scott Greene, SCFE, CEO  
Evidence Solutions, Inc.

A Digital Forensics Company:

Cell Phones  
Car and Truck Black Boxes  
Electronic Logging Devices / ELDs  
Infotainment Systems  
Global Positioning Systems / GPS  
Airbag Modules / EDRs  
Telematic Systems (Telematics)

866-795-7166

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**Evidence Solutions, Inc.**

**And the**

**Texas Trial Lawyers Association**

**Present:**  
**Digital Evidence in Personal Injury Cases**  
**February 16, 2018**

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**Faculty:**  
**Scott Greene**  
**Digital Forensics Expert**  
**Evidence Solutions, Inc.**  
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**"Digital Evidence in Personal Injury Trucking Cases"**

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- ELDs must be installed and in use by the December 16, 2017 deadline which is two years after the publication date. The mandate applies to all drivers who are required to keep records of duty status, except commercial drivers who 1) drive eight or fewer days out of every 30 working days; 2) drivers in drive-away and towing operations and 3) operators who are driving vehicles older than model year 2000.

## **Electronic Logging Device Mandate:**

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- ELDs must be able to automatically record date, time and location information. Location will generally be in the form of GPS coordinates, but GPS is not required. It also must record engine hours which must be synchronized from the engine on and off time. Finally, the vehicle miles and driver identification information must be logged.

## **Electronic Logging Device Specifications:**

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- The rule also requires compliant devices to be able to transfer data during roadside inspections. Acceptable interfaces to supply the data include: email, USB, Bluetooth, or a wireless Web-based services. In addition, ELDs must be able to display a graphic representation of the driver's daily duty status changes. This must be generated either on the screen of the unit or available in a printout.

# Electronic Logging Device Specifications:

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KEEP TRUCK LOG

### DRIVER'S DAILY LOG

USA Property 70 hour / 8 day

December 2, 2017

Driver	ID 26800	Co-Drivers
Distance	Vehicles TT49	Trailers VT12
Carrier	Main Office	
Home Terminal	Shipping Docs	

	M	1	2	3	4	5	6	7	8	9	10	11	N	1	2	3	4	5	6	7	8	9	10	11	M	Recap	
OFF	[Vertical bars representing duty status]																								24.00	<b>11/25</b>	3.00
SB	[Vertical bars representing duty status]																								00.00	<b>11/26</b>	11.50
D	[Vertical bars representing duty status]																								00.00	<b>11/27</b>	11.25
ON	[Vertical bars representing duty status]																								00.00	<b>11/28</b>	11.50
	[Vertical bars representing duty status]																								24.00	<b>11/29</b>	5.75

No.	Status	Start (CST)	Duration	Location	Notes
1	Off Duty	12:00 AM	24 hr		

	<b>Restart on 11/30</b>		<b>11/30</b>		<b>0.00</b>
			<b>12/01</b>		<b>0.00</b>
	<b>Total Hours</b>				
	<b>Since Restart</b>				

## Not on Duty & Not Driving

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DATE/TIME	LATITUDE	LONGITUDE	ADDRESS	STATUS	SPEED
12/2/2017 23:49	28.9311351	-97.878644	Unnamed Road, Karnes City, US-TX, 78118, USTexas, US 1BELLAH UNIT 1H28929679787888YANTA BEN 1BELLAH UNIT 1H	STOPPED	0
12/2/2017 22:49	28.9311593	-97.8786371	Unnamed Road, Karnes City, US-TX, 78118, USTexas, US 1BELLAH UNIT 1H28929679787888YANTA BEN 1BELLAH UNIT 1H	STOPPED	0
12/2/2017 21:49	28.9311635	-97.8786508	Unnamed Road, Karnes City, US-TX, 78118, USTexas, US 1BELLAH UNIT 1H28929679787888YANTA BEN 1BELLAH UNIT 1H	STOPPED	0
12/2/2017 20:50	28.9311575	-97.878655	Unnamed Road, Karnes City, US-TX, 78118, USTexas, US 1BELLAH UNIT 1H28929679787888YANTA BEN 1BELLAH UNIT 1H	STOPPED	0
12/2/2017 20:49	28.9311478	-97.879475	Unnamed Road, Karnes City, US-TX, 78118, USTexas, US 128929679787888	MOVING	8
12/2/2017 20:49	28.9309203	-97.8783275	Unnamed Road, Karnes City, US-TX, 78118, USTexas, USYANTA BEN 1BELLAH UNIT 1H28929679787888 1BELLAH UNIT 1H	MOVING	8
12/2/2017 20:48	28.930165	-97.8793593	Unnamed Road, Karnes City, US-TX, 78118, USTexas, USROOS UNIT 1H 1ROOS UNIT 1H28929679787888	MOVING	15
12/2/2017 20:48	28.9292831	-97.8803348	Unnamed Rd, Karnes City, US-TX, 78118, USTexas, US 6HROOS UNIT 1H28929679787888ROOS UNIT 1H 1	MOVING	21
12/2/2017 20:47	28.928186	-97.880355	County Road 354, Karnes City, US-TX, 78118, USTexas, US10 NABORS DRILLING/PLEAPDR UNIT 1H	MOVING	23
12/2/2017 20:46	28.9184991	-97.8803435	County Road 354, Karnes City, US-TX, 78118, USTexas, US	MOVING	22
12/2/2017 20:45	28.912131	-97.8803008	County Road 354, Karnes City, US-TX, 78118, USTexas, USMOY 1H	MOVING	32
12/2/2017 20:44	28.9023355	-97.8803008	County Road 354, Karnes City, US-TX, 78118, USTexas, US	MOVING	32
12/2/2017 20:43	28.8936583	-97.8905415	Texas 80, Karnes City, US-TX, 78118, USTexas, US	MOVING	54
12/2/2017 20:42	28.8901366	-97.8929615	800-918 Muecke Dr, Karnes City, US-TX, 78118, USTexas, US	MOVING	36
12/2/2017 20:41	28.8806961	-97.8932118	798 Louise St, Karnes City, US-TX, 78118, USTexas, US	MOVING	43
12/2/2017 20:40	28.8694326	-97.8933246	615 County Road 358, Karnes City, US-TX, 78118, USTexas, US	MOVING	40
12/2/2017 20:24	28.8655738	-97.894524	U.S. 181 Business, Karnes City, US-TX, 78118, USTexas, US	STOPPED	0
12/2/2017 20:23	28.86661	-97.893646	U.S. 181 Business, Karnes City, US-TX, 78118, USTexas, US	MOVING	12
12/2/2017 20:22	28.8756971	-97.893311	Unnamed Road, Karnes City, US-TX, 78118, USTexas, US	MOVING	52
12/2/2017 20:21	28.884212	-97.893305	TX-80, Karnes City, US-TX, 78118, USTexas, US	MOVING	9
12/2/2017 19:50	28.8842091	-97.8930581	TX-80, Karnes City, US-TX, 78118, USTexas, US	STOPPED	1
12/2/2017 19:49	28.8821598	-97.8932161	201 U.S. 181 Business, Karnes City, US-TX, 78118, USTexas, US	MOVING	31
12/2/2017 19:48	28.8706123	-97.8933028	U.S. 181 Business, Karnes City, US-TX, 78118, USTexas, US	MOVING	50
12/2/2017 19:47	28.8590715	-97.8930085	U.S. 181, Karnes City, US-TX, 78118, USTexas, US	MOVING	57
12/2/2017 19:46	28.8491536	-97.879	N Sunset Strip St, Karnes City, US-TX, 78118, USTexas, US	MOVING	55
12/2/2017 19:45	28.838468	-97.8705948	N Sunset Strip St, Kennedy, US-TX, 78119, USTexas, US 128838389786983	MOVING	52
12/2/2017 19:44	28.8339565	-97.8674318	North Sunset Strip Street, Karnes City, US-TX, 78118, USTexas, US	MOVING	45
12/2/2017 19:43	28.8260728	-97.8596706	333 N Sunset Strip St, Kennedy, US-TX, 78119, USTexas, US	MOVING	47
12/2/2017 19:42	28.8173655	-97.8575211	W Live Oak St, Kennedy, US-TX, 78119, USTexas, US	MOVING	10
12/2/2017 19:26	28.816913	-97.8570115	117 Craig St, Kennedy, US-TX, 78119, USTexas, US	STOPPED	0
12/2/2017 19:25	28.8171431	-97.8567435	117 Craig St, Kennedy, US-TX, 78119, USTexas, US	MOVING	8
12/2/2017 19:24	28.8173436	-97.8573695	W Live Oak St, Kennedy, US-TX, 78119, USTexas, US	MOVING	10
12/2/2017 19:23	28.8126576	-97.8600055	238 TX-72, Kennedy, US-TX, 78119, USTexas, US	MOVING	39

# There is only one problem

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```

569 03/17 11:35:05 [Workflow:WorkflowLoaderApplication,INF] WorkflowEngineImpl: getting initial position from GPSServer -
570 03/17 11:35:05 [WorkflowLocationService:WorkflowLoaderApplication,CRI] WorkflowLocationService TraceLevel Settings
571 03/17 11:35:05 [WorkflowLocationService:WorkflowLoaderApplication,INF] LocationServiceImpl: Initialize(): starting
572 03/17 11:35:05 [WorkflowLocationService:WorkflowLoaderApplication,INF] LocationServiceImpl: Update timer started,
573 03/17 11:35:05 [Workflow:WorkflowLoaderApplication,INF] WorkflowEngineImpl: Hulk engine Initialize success...
574 03/17 11:35:05 [WorkflowLoaderApplication:WorkflowLoaderApplication,INF] HulkEngineManager: Static Hulk engine
575 03/17 11:35:05 [WorkflowLoaderApplication:WorkflowLoaderApplication,INF]
576 03/17 11:35:05 [WorkflowLoaderApplication:WorkflowLoaderApplication,INF] WorkflowLoaderApplication state changed from
577 03/17 11:35:05 [PositionReporting:PositionReporting,INF] PositionReporting state changed from Initializing to
578 03/17 11:35:05 [PositionReporting:PositionReporting,INF] Initialized PositionReporting thread id 0x0981000E!
579 03/17 11:35:05 [WorkflowLocationService:WorkflowLoaderApplication,INF] In LocationServiceImpl UpdateLocationState(): state updated 1:
580 03/17 11:35:05 [GpsServer:GpsServer,INF] GpsServer state changed from Initializing to Initialized.
581 03/17 11:35:05 [GpsServer:GpsServer,INF] Initialized GpsServer thread id 0x07C20142!

```

# Omnitracs Device Data

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```
582 03/17 11:35:06 [DriverLogin:DriverLogin,INF] ^^UpdateDriver() - Driver 'LoginId: GIBBONSDAV, SensorTracsId:
4294967295, Active: False' before update
583 03/17 11:35:06 [DriverLogin:DriverLogin,INF] ^^UpdateDriver() - Got authentication success from NMC
584 03/17 11:35:06 [DriverLogin:DriverLogin,INF] ^^UpdateDriver() - Driver not authenticated yet. 'LoginId: GIBBONSDAV,
SensorTracsId: 4294967295, Active: False' .Propagating NMC properties to driver
585 03/17 11:35:06 [DriverLogin:DriverLogin,INF] ^^LoginSessionNMC2MT.SensorTRACSId: Before = 4294967295
586 03/17 11:35:06 [DriverLogin:DriverLogin,INF] ^^LoginSessionNMC2MT.SensorTRACSId: After = 4071977
587 03/17 11:35:06 [DriverLogin:DriverLogin,INF] ^^UpdateDriver() - Driver after update. 'LoginId: GIBBONSDAV,
SensorTracsId: 4071977, Active: False'
588 03/17 11:35:06 [ProtocolServer:ProtocolServer,INF] ProtocolServer state changed from Initializing to Initialized.
589 03/17 11:35:06 [ProtocolServer:ProtocolServer,INF] Initialized ProtocolServer thread id 0x079D011E!
590 03/17 11:35:06 [ConnectionServer:ConnectionServer,INF] ConnectionServer state changed from Initializing to
Initialized.
591 03/17 11:35:06 [DriverLogin:DriverLogin,INF] ^^UpdateDriver() - Driver 'LoginId: GROSHANTIM, SensorTracsId:
4294967295, Active: False' before update
592 03/17 11:35:07 [ConnectionServer:ConnectionServer,INF] Initialized ConnectionServer thread id 0x07990122!
```

# Omnitracs Device Data

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- Cell Phones
- Basic Cell Phones
- Smart Cell Phones
- Two way pagers
- GPS Systems
- Vehicle Black Box Units
- Infotainment Systems
- zip passes
- On-star

"Digital Evidence in Personal Injury Trucking Cases"

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- Cell Phones & Tablets
  - Text messages
  - Photos?
    - GeoTagging
  - Calendars
  - Phone Books
  - Call Logs
  - Complete information about where the phone has been....

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- Cell Phones & Tablets
  - Browsing History
  - Documents
  - Email accounts
  - Online data storage accounts

"Digital Evidence in Personal Injury Trucking Cases"

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(a) Prohibition. No driver shall engage in texting while driving.

(b) Motor carriers. No motor carrier shall allow or require its drivers to engage in texting while driving.

# FMCSR § 392.80

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Item	Conn. Date	Conn. Time	Orig. Number	Term. Number	IMEI	Description	Content	Tower Location
1	9/23/2013	11:48	Redacted	Redacted	Redacted	Incoming SMS	Wht up, lookn 4 sum peace tabs or at lest sum oj, u got any?	33.30522, -111.72406
2	9/23/2013	11:49	Redacted	Redacted	Redacted	Outgoing SMS	I'll check, how much do u need?	33.30522, -111.72406
3	9/23/2013	11:50	Redacted	Redacted	Redacted	Incoming SMS	Enough 4 the weeknd, couple grams?	33.30522, -111.72406
4	9/23/2013	11:53	Redacted	Redacted	Redacted	Outgoing SMS	Meet at Pacos in 30?	33.30522, -111.72406
5	9/23/2013	11:54	Redacted	Redacted	Redacted	Incoming SMS	Tight	33.30522, -111.72406

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04/02/12 01:54	Driving			
04/02/12 02:17	SMS - Sent	Sydney		4429788174
04/02/12 02:21	SMS - Inbox	Sydney		4429788174
04/02/12 02:21	SMS - Sent	Sydney		4429788174
04/02/12 02:21	SMS - Inbox	Sydney		4429788174
04/02/12 02:21	SMS - Sent	Sydney		4429788174
04/02/12 02:22	SMS - Inbox	Sydney		4429788174
04/02/12 02:23	SMS - Sent	Sydney		4429788174
04/02/12 02:23	SMS - Sent	Sydney		4429788174
04/02/12 02:23	SMS - Inbox	Sydney		4429788174
04/02/12 02:23	SMS - Inbox	Sydney		4429788174
04/02/12 02:24	SMS - Inbox	Sydney		4429788174

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**Driver Miles Today:** 374.7      **Driver Name:** [REDACTED]  
**Co-Driver Miles Today:** 0.0      **Co-Driver Name:** [REDACTED]  
**Vehicle Miles Today:** 374.7

**Carrier:** [REDACTED]      **Fleet:** [REDACTED]

Off-Duty: 11:31  
Sleeper Berth: 00:00  
Driving: 07:33  
On-Duty: 04:56

Remarks	Time Status Description	Inspect
PRE-TRIP @ 1:07a 00:05	12:00a OFF (500) [REDACTED]	
VEHICLE: 303	01:07a DUTY (500) [REDACTED]	
ROUTE: 0301120109	01:12a State: TX	
POST-TRIP @ 1:31p 00:05	01:12a Driver Join(500) [REDACTED]	
	01:12a DUTY (500) [REDACTED]	
	01:14a DRIVE (500) Odessa Yard [REDACTED]	
	02:00a DUTY (TX-2083) [REDACTED]	
	02:33a DRIVE (TX-2083) [REDACTED]	
	03:14a DUTY (295) C/P [REDACTED]	
	03:38a DRIVE (295) C/P GOLDSMITH [REDACTED]	

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Time	Status	Description	
12:00A	OFF	(500)	
01:07A	DUTY	(500)	
01:12A		State: TX	
01:12A		Driver	
01:12A	DUTY	(500)	
01:14A	DRIVE	(500)	
02:00A	DUTY	(TX-2083)	
02:33A	DRIVE	(TX-2083)	
03:14A	DUTY	(295) C/P	
03:38A	DRIVE	(295) C/P	
04:16A	DUTY	(TX-2083)	
04:50A	DRIVE	(TX-2083)	
05:32A	DUTY	(295) C/P	
05:57A	DRIVE	(295) C/P	
06:42A	DUTY	(TX-2083)	
07:16A	DRIVE	(TX-2083)	
07:59A	DUTY	(295) C/P	
08:23A	DRIVE	2.7 mi S of	
09:05A	DUTY	(TX-4198)	
09:35A	DRIVE	(TX-4198)	
10:18A	DUTY	(295) C/P	
10:42A	DRIVE	(295) C/P	
11:25A	DUTY	(TX-4196)	
11:52A	DRIVE	12.8 mi NW	
12:35P	DUTY	(295) C/P	
01:01P	DRIVE	(295) C/P	
01:28P	DUTY	(500)	
01:31P		Driver Leave (500)	
01:31P			
01:36P	OFF	(500)	

03/01/12 0709	SMS - Inbox
03/01/12 0710	SMS - Inbox
03/01/12 0716	Driving
03/01/12 0735	SMS - Sent
03/01/12 0737	SMS - Inbox
03/01/12 0738	SMS - Sent
03/01/12 0739	SMS - Inbox
03/01/12 0759	In Service
03/01/12 0823	Driving
03/01/12 0842	SMS - Sent
03/01/12 0905	In Service
03/01/12 0935	Driving
03/01/12 0955	SMS - Inbox
03/01/12 1018	In Service
03/01/12 1042	Driving
03/01/12 1125	In Service
03/01/12 1152	Driving
03/01/12 1230	SMS - Inbox
03/01/12 1235	In Service
03/01/12 1240	SMS - Inbox

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- The following represents the approximate number of text messages sent by Defendant while he was driving his tractor-trailer.



(Keith) Hey you send me more pics do you have a full body pic I can see sexy

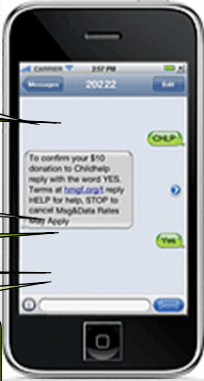
LOL no I don't .....

Will you take one for me" – "So how are thing with you and your mate

Maybe later .....and they are so so ....

"They are so so ?

Yea sometimes it seems like were just roommates LOL  
I have to tell u something and lets hope u don't RUN ....



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1329977.002  
06/12/2013  
SCAMP

**MOBILITY USAGE**

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Run Date: 06/12/2013  
Run Time: 17:41:35  
Voice Usage For: (480) [REDACTED]  
Account Number: 81342 [REDACTED]

Item	Conn. Date	Conn. Time	Seizure Time	Originating Number	Terminating Number	Elapsed Time	Number Dialed	IMEI	IMSI	Descriptio
1	01/01/11	05:36A	0:22	[REDACTED]	[REDACTED]	0:00	[REDACTED]	35349104165148	310410366057466	m2M_DIR
2	01/01/11	05:37A	0:02	[REDACTED]	[REDACTED]	0:06	[REDACTED]		310410366057466	M2m
3	01/01/11	05:37A	0:27	[REDACTED]	[REDACTED]	0:06	[REDACTED]		310410366057466	m2M
4	01/01/11	09:09A	0:10	[REDACTED]	[REDACTED]	4:42	[REDACTED]	35349104165148	310410366057466	m2M_DIR
5	01/01/11	09:31A	0:08	[REDACTED]	[REDACTED]	3:22	[REDACTED]	35349104165148	310410366057466	m2M_DIR
6	01/01/11	09:35A	0:05	[REDACTED]	[REDACTED]	1:05	[REDACTED]	35349104165148	310410366057466	M2O_DIR
7	01/01/11	09:38A	0:05	[REDACTED]	[REDACTED]	0:47	[REDACTED]	35349104165148	310410366057466	M2O_DIR
8	01/01/11	09:40A	0:23	[REDACTED]	[REDACTED]	0:06	[REDACTED]	35349104165148	310410366057466	M2O_DIR
9	01/01/11	09:42A	0:08	[REDACTED]	[REDACTED]	0:31	[REDACTED]	35349104165148	310410366057466	M2O_DIR
10	01/01/11	09:45A	0:01	[REDACTED]	[REDACTED]	0:00	[REDACTED]	35349104165148	310410366057466	M2O_DIR

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1329977.002  
06/12/2013  
SCAMP

**MOBILITY USAG**

---

Run Date: 06/12/2013  
Run Time: 17:41:35  
Voice Usage For: (480) [REDACTED]  
Account Number: 81342 [REDACTED]

Item	Conn. Date	Conn. Time	Seizure Time	Originating Number	Terminating Number	Elapsed Time	Number Dialed
1	01/01/11	05:36A	0:22	[REDACTED]	[REDACTED]	0:00	[REDACTED]
2	01/01/11	05:37A	0:02	[REDACTED]	[REDACTED]	0:06	[REDACTED]
3	01/01/11	05:37A	0:27	[REDACTED]	[REDACTED]	0:06	[REDACTED]
4	01/01/11	09:09A	0:10	[REDACTED]	[REDACTED]	4:42	[REDACTED]
5	01/01/11	09:31A	0:08	[REDACTED]	[REDACTED]	3:22	[REDACTED]
6	01/01/11	09:35A	0:05	[REDACTED]	[REDACTED]	1:05	[REDACTED]
7	01/01/11	09:38A	0:05	[REDACTED]	[REDACTED]	0:47	[REDACTED]
8	01/01/11	09:40A	0:23	[REDACTED]	[REDACTED]	0:06	[REDACTED]
9	01/01/11	09:42A	0:08	[REDACTED]	[REDACTED]	0:31	[REDACTED]
10	01/01/11	09:45A	0:01	[REDACTED]	[REDACTED]	0:00	[REDACTED]

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1329977.002  
06/12/2013  
SCAMP

**MOBILITY USAGE**

---

Run Date: 06/12/2013  
Run Time: 17:42:47  
Data Usage For: (480) [REDACTED]  
Account Number: 81342 [REDACTED]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn	IMEI	IMSI	Access Pt	Description
6374	05/26/11	10:00A	[REDACTED]	13:13	6677	111991	3534910416514804	310410366057466	acds.voicemai l	_MOBILE_DATA_
6375	05/26/11	10:14A	[REDACTED]	5:08	0	0	3534910416514804	310410366057466	acds.voicemai l	_MOBILE_DATA_
6376	05/26/11	10:31A	[REDACTED]	13:14	9271	49317	3534910416514804	310410366057466	BLACKBERRY.NE T	_MOBILE_DATA_
6377	05/26/11	10:31A	[REDACTED]	2:13	2639	8417	3534910416514804	310410366057466	WAP.CINGULAR	_MOBILE_DATA_
6378	05/26/11	10:44A	[REDACTED]	0:24	553	571	3534910416514804	310410366057466	BLACKBERRY.NE	_MOBILE_DATA_

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1329977.002  
06/12/2013  
SCAMP

---

Run Date: 06/12/2013  
Run Time: 17:42:47  
Data Usage For: (480) [REDACTED]  
Account Number: 81342 [REDACTED]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn
6374	05/26/11	10:00A	[REDACTED]	13:13	6677	111991
6375	05/26/11	10:14A	[REDACTED]	5:08	0	0
6376	05/26/11	10:31A	[REDACTED]	13:14	9271	49317
6377	05/26/11	10:31A	[REDACTED]	2:13	2639	8417
6378	05/26/11	10:44A	[REDACTED]	0:24	553	571

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1329977.002  
06/12/2013  
SCAMP

**MOBILITY USAGE**

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Run Date: 06/12/2013  
Run Time: 17:44:11  
SMS Usage For: (480) [REDACTED]  
Account Number: 81342 [REDACTED]

Item	Conn. Date	Conn. Time	Originating Number	Terminating Number	IMEI	IMSI	Description
913	01/14/11	09:37P	[REDACTED]5660	[REDACTED]3109	35349104165148	310410366057466	OUT
914	01/14/11	09:37P	[REDACTED]5660	[REDACTED]3109	35349104165148	310410366057466	OUT
915	01/14/11	09:41P	[REDACTED]3109	[REDACTED]5660	35349104165148	310410366057466	IN
916	01/15/11	08:06A	[REDACTED]5660	[REDACTED]3587	35349104165148	310410366057466	OUT
917	01/15/11	08:16A	[REDACTED]3587	[REDACTED]5660	35349104165148	310410366057466	IN
918	01/15/11	08:32A	[REDACTED]5660	[REDACTED]3587	35349104165148	310410366057466	OUT
919	01/15/11	08:32A	[REDACTED]3587	[REDACTED]5660	35349104165148	310410366057466	IN

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## iPhone Data After iOS 8

- **iCloud Backup**
- **Local Computer Backups**
- **Other**

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## Android Data

- On Phone Backups
- Local Computer Backups
- Cloud Backups
  - Searches, Sites, Etc
- Other

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877	sex quotes for her - Google Search	https://www.google.com/search?q=sex+quotes+for+her&client=safari&hl=en-us&prmd=isvn&source=lnms&tbm=isch&sa=X&ved=0ahUKewiA8OvKobzOAhVH22MKHU15Ao0Q_AUIBygB&biw=375&bih=559#tbm=isch&tbs=rimg%3ACZ4_1lIQSmLWylkAmR50f8rqxBWrljOzE0iJ5xdIF5hBYmpD9uwN0V55sM4b2SW0f0vvyQBSBxj31BW	8/12/2016 11:25:07 AM(UTC-5)	1	Safari	
878	sex quotes for her - Google Search	HSL_1NMPiWkA7D2Q5pLrKhlJkdedH_1K6sQURMRe4OuaYQAAqEglqylzsnNleRFeuq1SPm4NHioSCcXSBeYQWJqQE2T28sDHbvYKhJj_1baDdFeebDMR3qMRLV44aoqEgmG9kln9L78eHYZaDSKLWISoSCUAUgeY99QVhEX02SgnlQuAdKhJ6LPhe_1zTD0RQDTzjeHs6iqEglaOw9kOaS6xK71Z6VKmapQ%3D%3D&q=sex%20quotes%20for%20her&hl=en-us	8/12/2016 11:24:03 AM(UTC-5)	1	Safari	
879	sex quotes for her - Google Search	https://www.google.com/search?q=sex+quotes+for+her&client=safari&hl=en-us&prmd=isvn&source=lnms&tbm=isch&sa=X&ved=0ahUKewiA8OvKobzOAhVH22MKHU15Ao0Q_AUIBygB&biw=375&bih=559#mrgc=nj-WJBKYtbKuMM%3A	8/12/2016 11:24:01 AM(UTC-5)	1	Safari	
880	sex quotes for her - Google Search	https://www.google.com/search?q=sex+quotes+for+her&client=safari&hl=en-us&prmd=isvn&source=lnms&tbm=isch&sa=X&ved=0ahUKewiA8OvKobzOAhVH22MKHU15Ao0Q_AUIBygB&biw=375&bih=559#mrgc=5iPnCqVRgKmFOM%3A	8/12/2016 11:23:59 AM(UTC-5)	1	Safari	

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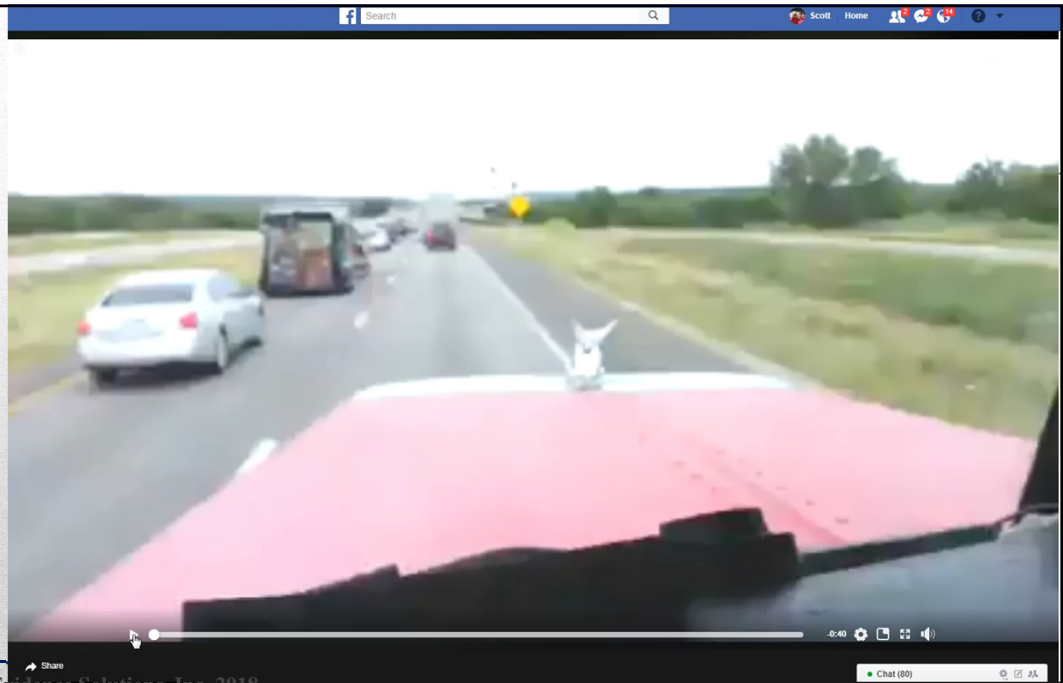
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There are a number of applications that can be installed on cell phones to prevent texting and driving.

- **DriveOFF – Free**
- **DriveMode – Free**
- **TextBuster - \$179**
- **DriveScribe - Free**

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- **Hospital Paging Systems**
  - Was the Doctor Onsite?
- **Electronic Medical Record Systems**
  - Don't just believe what they give you
- **Vehicle Maintenance Systems**
  - Records of what happened when & by whom

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- Email Systems
  - Data is Easily Fabricated
- Telematics / Electronic Logging Devices
  - They aren't the end
- Self Driving / Automation in Cars
  - Safer.... eventually

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