HUMAN PERFORMANCE FACTORS GROUP CHAIRMAN'S FACTUAL REPORT

Fatal Grade Crossing Accident
Midland, Texas: 11/15/2012

HWY-13-MH-003

Attachment 7
Cellular Telephone Records for Train Conductor

(17 pages)

Please refer to the legend below that explains the columns and the information displayed on the attached report.

LEGEND FOR AT&T MOBILITY RECORDS LABELED "DATA SOURCE: SCAMP"

The attached file is being sent in a text file format to provide you with the ability to download into your data analysis system.

Once downloaded into an EXCEL format, header information will appear at the top displaying the AT&T 6-digit file number, creation date, the AT&T database source, date the report was run, and the account number of the target.

You may receive up to 3 separate reports for usage: Voice, Data and SMS. This is indicated at the beginning of each report. The fields you will find on usage reports are as follows:

VOICE:
Conn. Date and Conn. Time: The date and time the call was actually connected.
Seizure Time: The number of minutes and seconds it took from the time the 'Send' button was pressed to the time the call was connected to the network.
Originating Number: If target number appears in this field, the call is an outgoing call and the called number is in the Terminating Number field.
Terminating Number: If target number appears in this field, the call is an incoming call and the caller's number is in the Originating Number field. In rare instances, you may see all *** in this column. This is an indication that an invalid number was entered.
Elapsed Time: Number of minutes and seconds of the call between the connection time and the end of the call, also known as call duration. Does not include seizure time.
Number Dialed: This column represents the number that was actually dialed by the calling party or the voicemail access number if the call was forwarded to voicemail.
IMEI: International Mobile Equipment Identification number.
IMSI: International Mobile Subscriber Identity number.
Description: This field uses 2 key characters that describe the parties involved and a short description suffix key word that describes what is known about how the call was handled. Outbound calls will always be described as "DIR". "M" indicates the presence of an AT&T Mobility number. "m" indicates the presence of another wireless carrier's number. The number "2" will always be shown in the middle of the two characters and is used in lieu of "to". For example, M2O means AT&T Mobile "to" a Non-Mobile Phone Number. This report will not show routing by the receiving side of an outbound call. The tables below describe the potential values.
CIC: Stands for Carrier Identification Code. The number in this column translates to identifying the interexchange carrier of the call. A public listing of CIC codes can be found at the following url: http://www.nanapa.com/reports/reports_cic.html
Call Code: Represents the type of call that was processed on the wireline network. Call Code information can be obtained from the AskCalea website. If the LEA does not have access to AskCalea, please contact 1-855-532-2532

Key Character Definitions

Field	Description
M	AT&T Mobile Phone (based on billing validation)
m	Other Carrier Mobile Phone (based on billing validation)
O	Non-Mobile Phone Number

Calls will have 4 potential "suffix" descriptions.

Description Suffix Definitions

Field Suffix	Description
DIR	Outbound calls will display DIR except for voicemail checks directly from the handset (VMC). Inbound calls will display DIR if no forwarding took place. Either the phone was answered or rang and was not answered.
VMC	Call was from handset to check Voicemail box.
VMB	Call was routed to VoiceMail number.
FWD	Call was forwarded to another number.
	Forwarding action could not be determined.

A call described as "m2M_DIR" would be interpreted as a call from another carrier's mobile phone to an AT&T mobile phone that was not forwarded. For example, the call was not routed to voicemail. A call described as "O2M_FWD" would be a call from a non-mobile phone number to an AT&T mobile number that was forwarded to the number listed in the Terminating Number field.
Cell Location: Column only displays if location information was requested. The first two numbers indicate the beginning and ending LAC/CID information followed by the longitude/latitude and the azimuth (center point of the sector) of all cell sites that serviced the call. If the target was traveling, you may see more than one cell site in this field which will indicates hand offs while the call is in progress.

DATA USAGE:
The Data report displays many of the same columns as on the other reports, but also includes:

Bytes Up: The number of bytes sent from mobile station to the network.
Bytes Dn: The number of bytes from the network to the mobile station.
Access Pt: Displays the network interface access point.
Cell Location: Column only displays if location information was requested. Same information is displayed as noted above.

SMS USAGE:
Originating Number: If target number appears in this field, the SMS is outgoing and the receiving number is in the Terminating Number field.
Terminating Number: If target number appears in this field, the SMS is incoming and the receiving number is in the Originating Number field.
Description: This field describes the direction of the message and a short description that describes what is known about the type of message. Outbound calls will always be described as "OUT" with no suffix description, and inbound messages will provide a description when it is known.

Key Prefix Definitions

Field	Description
IN	Inbound Message
OUT	Outbound Message

Description Suffix Definitions
(These are ALL SYSTEM GENERATED MESSAGES)

Field Suffix	Description
VMN	VoiceMail message is waiting notification
VMP	VoiceMail box has been accessed notification.
VMA	Indicates either a voice mail notification or accessed notification.
AGM	General notification message from AT&T (time to add credit etc.).
ACB	Account Balance check response.
ACM	Account minutes available check response.
ACD	Account data used check response.

A message described as "IN_VMP" would be interpreted as an inbound system message to the phone notifying the user that the voicemail box has been checked. A message labeled as "IN_ACB" means the user requested an "Account Balance Check" and the reply was received by the phone.
Cell Location: The first two numbers indicate the beginning and ending LAC/CID information followed by the longitude/latitude and the azimuth (center point of the sector) of all cell sites that serviced the call. If the target was traveling, you may see more than one cell site in this field.

NOTE: If you requested call records and the target subscriber's device is an iPhone with the most current operating system (iOS 5 or above) and they send a text message to another device with the iOS 5 (or above) operating system, text messages between these devices will not appear in the detail records we have provided. This is because these text messages are delivered via the iMessage service through Apple. If the iMessage transaction occurred on the AT&T network, AT&T only captures the transaction as a data session and no other transactional information is stored or available.

1237752
11/29/2012
SCAMP

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:18
Voice Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Seizure Time	Originating Number	Terminating Number	Elapsed Time	Number Dialed	IMEI	IMSI	Description
1	11/12/12	06:35A	0:14	[redacted]	[redacted]	1:05	[redacted]	[redacted]	[redacted]	O2M_DIR
[redacted]										
9	11/12/12	08:39P	0:25	[redacted]	[redacted]	12:55	[redacted]	[redacted]	[redacted]	M2m_DIR
10	11/13/12	09:54A	0:05	[redacted]	[redacted]	5:11	[redacted]	[redacted]	[redacted]	M2M_DIR
11	11/13/12	06:12P	0:05	[redacted]	[redacted]	0:59	[redacted]	[redacted]	[redacted]	M2M_DIR
12	11/14/12	08:41A	0:14	[redacted]	[redacted]	1:28	[redacted]	[redacted]	[redacted]	O2M_DIR
[redacted]										
18	11/14/12	09:13P	0:27	[redacted]	[redacted]	3:41	[redacted]	[redacted]	[redacted]	M2M_DIR
19	11/15/12	09:45A	0:01	[redacted]	[redacted]	0:03	[redacted]		[redacted]	M2m
[redacted]										
24	11/15/12	12:58P	0:01	[redacted]	[redacted]	1:09	[redacted]		[redacted]	M2M
[redacted]										

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:18
Voice Usage For: [redacted]
Account Number: [redacted]

Item	Conn.	Conn.	Seizure	Originating	Terminating	Elapsed	Number	IMEI	IMSI	Description

[redacted]

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:19
Data Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn	IMEI	IMSI	Access Pt	Description
[redacted]										

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:19
Data Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn	IMEI	IMSI	Access Pt	Description
[redacted]										

[redacted]

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:19
Data Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn	IMEI	IMSI	Access Pt	Description
[redacted]										

[redacted]

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:20
Data Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn	IMEI	IMSI	Access Pt	Description
[redacted]										

[redacted]

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:20
Data Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn	IMEI	IMSI	Access Pt	Description
[redacted]										

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:20
Data Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn	IMEI	IMSI	Access Pt	Description
[redacted]										

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:21
Data Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn	IMEI	IMSI	Access Pt	Description
[redacted]										

[redacted]

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:21
Data Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn	IMEI	IMSI	Access Pt	Description
[redacted]										

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:21
Data Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn	IMEI	IMSI	Access Pt	Description
[redacted]										

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:21
Data Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Originating Number	Elapsed Time	Bytes Up	Bytes Dn	IMEI	IMSI	Access Pt	Description
[redacted]										

MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:22
SMS Usage For: [redacted]
Account Number: [redacted]

Item	Conn. Date	Conn. Time	Originating Number	Terminating Number	IMEI	IMSI	Description
1	11/12/12	05:57P	[redacted]	[redacted]	[redacted]	[redacted]	IN
2	11/13/12	08:03P	[redacted]	[redacted]	[redacted]	[redacted]	IN
3	11/14/12	03:09P		[redacted]		[redacted]4	IN
4	11/14/12	03:15P	[redacted]	[redacted]	[redacted]	[redacted]	IN
5	11/14/12	03:15P	[redacted]	[redacted]	[redacted]	[redacted]	IN_VMP
6	11/15/12	11:44A	[redacted]	[redacted]	[redacted]	[redacted]	IN
7	[redacted]						
8							
9							
10	11/15/12	11:48A	[redacted]	[redacted]	[redacted]	[redacted]	IN_VMP
11	[redacted]						
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MOBILITY USAGE

Run Date: 11/29/2012
Run Time: 13:19:22
SMS Usage For: [redacted]
Account Number: [redacted]7

Item	Conn. Date	Conn. Time	Originating Number	Terminating Number	IMEI	IMSI	Description
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]