



**Human Performance Attachment**

**Motorcoach Driver Cellular Telephone Records**

**Biloxi, MS**

**HWY17MH010**

(19 pages)

## Interpreting Call Detail Records

Your response includes Call Detail Records (CDR) either with or without location. Our query results in an Excel file with multiple columns. Each row represents one call on the T-Mobile network. Some fields only appear in reports with location information.

Multimedia Messages (MMS) and text messages sent as MMS **do not** appear as part of a call record. Standard text messages **do** appear on this report. Calls made while roaming also **do not** appear on this report.

Entries with outgoing calls to 8056377249 indicate incoming calls that are forwarded (out) to the voicemail system. Entries with outgoing calls to 8056377243 = 805-MESSAGE indicate voicemail retrieval.

Please remember that T-Mobile CDR systems natively use Coordinated Universal Time (UTC). By default, that means a day of call detail records are taken from 00:00:01 to 23:59:59 UTC which may differ from your intended time range due to your time zone. If specific times other than our default are important to your inquiry, please submit legal demands with the date range/time frame adjusted for UTC to avoid delay or confusion. We are unable to convert the time displayed in the records to the local time of the handset.

The columns present on your CDR may be:

COLUMN NAME	DESCRIPTION	LOCATION RPT ONLY?	NOTES
<b>Date</b>	Date format mm/dd/yyyy	NO	
<b>(UTC) Time</b>	24 hour time format - hh:mm:ss in UTC	NO	In UTC time
<b>Duration</b>	Duration hh:mm:ss	NO	
<b>Call Type</b>	Type of call: callForwarding = Forwarded Call; mSOriginating = Outgoing Voice Call; mSTerminating = Incoming Voice; mSOriginatingSMSinMSC = Outgoing SMS; mSTerminatingSMSinMSC = Incoming SMS; moc=Mobile Originating Call; mtc= Mobile Terminating Call	NO	
<b>Direction</b>	Outgoing or Incoming to the target telephone number	NO	
<b>Calling Number</b>	Phone number that initiated the call	NO	
<b>Dialed Number</b>	Dialed digits	NO	
<b>Called Number</b>	Phone number that received the call	NO	
<b>Destination Number</b>	The final destination number to which the network has connected the call (might be different from the one dialed by subscriber if network translation was applied)	NO	
<b>IMSI</b>	International Mobile Subscriber Identity of the target number, if present	NO	
<b>IMEI</b>	International Mobile Equipment Identity of the target number, if present	NO	
<b>Completion Code</b>	Completed successfully or Abnormal Completion (network interruption). Abnormal completion calls display on this report but may or may not show on a customer's bill.	NO	
<b>Answered?</b>	Answered or Unanswered. Unanswered calls display on this report but may or may not show on a customer's bill.	NO	
<b>Service Code</b>	11 Calling line identification presentation 12 Calling line identification restriction 13 Connected Line ID Presentation 20 All Call Forwarding Services 21 Call Forwarding Unconditional (CFU) 28 All Cond Call Forwarding Services 29 Call Forwarding on Mobile Subscriber Busy (CFB) 2A Call Forwarding on No Reply (CFNRy) 2B Call Forwarding on Not Reachable (CFNRc) 31 Explicit Call Transfer (ECT) 42 Call Hold 41 Call waiting 51 Multi-Party (MPTY)	NO	
<b>Disconnecting Party</b>	Calling Party; Called Party or Network	NO	

<b>Service Indicator</b>	If populated, then the call was originated on WIFI/VoLTE, and has continued on GSM (expect 2 CDRs for same call leg)	NO	
<b>SMS Deliv Status</b>	SMS delivery result	NO	
<b>Switch Name</b>	Name of the switch which was used to deliver the call to the target number.	NO	This is NOT an indication of the location of the device.
<b>1st LTE Site ID</b>	EnodeBid value in decimal	YES	Only present if the call was over LTE
<b>1st LAC</b>	1st LAC value in decimal	YES	Not present if the call was over LTE
<b>1st Cell ID</b>	1st Cell Site ID value in decimal	YES	Not present if the call was over LTE
<b>1st Tower Azimuth</b>	Location: Azimuth orientation of antenna serving user if available (see note below)	YES	
<b>1st Tower LAT</b>	Latitude of 1st cell tower used.	YES	
<b>1st Tower LONG</b>	Longitude of 1st cell tower used.	YES	
<b>1st Tower Address</b>	Street Address of the 1st serving tower if available	YES	
<b>1st Tower City</b>	City of the 1st serving tower if available	YES	
<b>1st Tower State</b>	State of the 1st serving tower if available	YES	
<b>1st Tower Zip</b>	ZIP of the 1st serving tower if available	YES	
<b>Last LTE Site ID</b>	EnodeBid value in decimal	YES	Only present if the call was over LTE
<b>Last LAC ID</b>	Last LAC value in decimal	YES	Not present if the call was over LTE
<b>Last Cell ID</b>	Last Cell Site ID value in decimal	YES	Not present if the call was over LTE
<b>Last Tower Azimuth</b>	Azimuth orientation of antenna serving user if available (see note below)	YES	
<b>Last Tower LAT</b>	Latitude of last cell tower used.	YES	
<b>Last Tower LONG</b>	Longitude of last cell tower used.	YES	
<b>Last Tower Address</b>	Street Address of the last serving tower if available	YES	
<b>Last Tower City</b>	City of the last serving tower if available	YES	
<b>Last Tower State</b>	State of the last serving tower if available	YES	
<b>Last Tower Zip</b>	ZIP of the last serving tower if available	YES	

A NOTE ON AZIMUTH: The azimuth listed is the center compass degree facing of the identified sector of the tower. Generally, the coverage of a tower is circular and divided in three equal pieces (each 120 degrees wide). Due north is 0, due south is 180. However, not every tower is aligned with the first sector starting at 0. Using the listed azimuth, rough direction from the tower can be calculated for a call. The center degree of the sector's facing is indicated in this field. For example, if a facing has a listed orientation of 90, the center of the coverage is pointed at 90 degrees but the sector will cover traffic from roughly 60 degrees on either side (thus 30 to 150 degrees in this example).

For more information on UTC, please visit: <http://www.timeanddate.com/time/aboututc.html>. To convert records to your local time, you will need to use a converter such as [http://www.worldtimeserver.com/convert\\_time\\_in\\_UTC.aspx](http://www.worldtimeserver.com/convert_time_in_UTC.aspx).

Information Provided To:

Agency: Attorney/Other
Requestor: DENNIS COLLINS
Agent Address: 490 L'ENFANT PLAZA SW
Billing City, State, Zip: WASHINGTON , DC 20594-0000
Provided On: April 28, 2017



Request Submission Response

This is in response to the Subpoena, CO/SW NEEDED FOR CELL SITES, dated March 12, 2017, which was served upon T-Mobile US, Inc. You have requested information for the subscriber associated with MSISDN: 6822036474. All times below are reflected in Coordinated Universal Time (UTC).

Table with 14 columns: Date, Time, Duration, Call Type, Direction, Calling Number, Dialed Number, Called Number, Destination Number, IMSI, IMEI, Completion Code, Service Code, Switch Name. The data rows contain mostly blacked-out information.

































Date	Time	Duration	Call Type	Direction	Calling Number	Dialed Number	Called Number	Destination Number	IMSI	IMEI	Completion Code	Service Code	Switch Name	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
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