



**HUMAN PERFORMANCE FACTORS GROUP CHAIRMAN'S
FACTUAL REPORT**

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

HWY-13-MH-003

Attachment 6
Cellular Telephone Records for Train Engineer

(27 pages)



Historical Call Detail Explanation Form

<u>Network Element</u>	<u>Mobile Directory #</u>	<u>Dialed Digit</u>	<u>Call Direction</u>	<u>Seizure Date Time</u>	<u>Seizure Duration</u>	<u>Calling Party Number</u>
This is the switching equipment that transacted the call. A switch is named by the basic geographic area it covers. Switches route calls for hundreds of cell sites.	The billed subscriber's Mobile Directory Number (MDN)	This is the number dialed to initiate the call. For inbound calls this number will be the same as the Mobile Directory Number column and for outbound calls this is the number your target dialed.	This is the type of call, e.g. inbound, outbound, or voicemail.	This is the exact date and time of the start of each call	This is the duration of the call in seconds	This is the calling party that initiated the call. If the call is outbound this column will be the same as the Mobile Directory Number. If the call is inbound, this is the number that dialed your target.
			Inbound calls display the following numbers: 0 & 6. Calls to voicemail or mobile forwarded calls display the letter "F."			
			Outbound calls display the following numbers: 1 & 3			
			Mobile to Mobile calls display the number 2.			
			Any other letter or number is a routing or unknown call type and does not detail actual transactional data for a completed call. Subscriber information is not available for routing numbers.			

When the #s in the Mobile Directory Number column, Dialed Digit column and the Calling Party Number column are all different, then you are looking at a routing #. The Routing # will appear in the Dialed Digit column. (All three numbers are different)

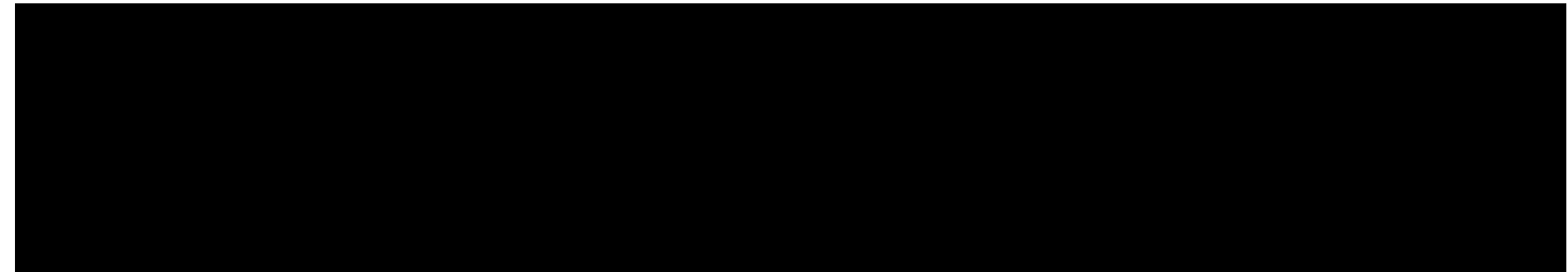
If you see your target # in the Mobile Directory Number column, the Dialed Digit column and the Calling Party Number column, then you are looking at your target checking his/her voicemail. (All three numbers are the same)

- *86 is voicemail retrieval
- #225 is checking account balance
- #646 is checking minutes
- #777 is data/web services
- #738 is prepaid voicemail retrieval
- #729 is adding minutes for prepaid
- *67 Activates Selective Caller ID Block
- *82 Deactivates Selective Caller ID Blocking

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Network Element Name	Mobile Directory Number	Dialed Digit Number	Call Direction	Seizure Dt Tm	Seizure Duration	Calling Party Number
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Midland	[REDACTED]	[REDACTED]	1	11/12/2012 6:46	105	[REDACTED]
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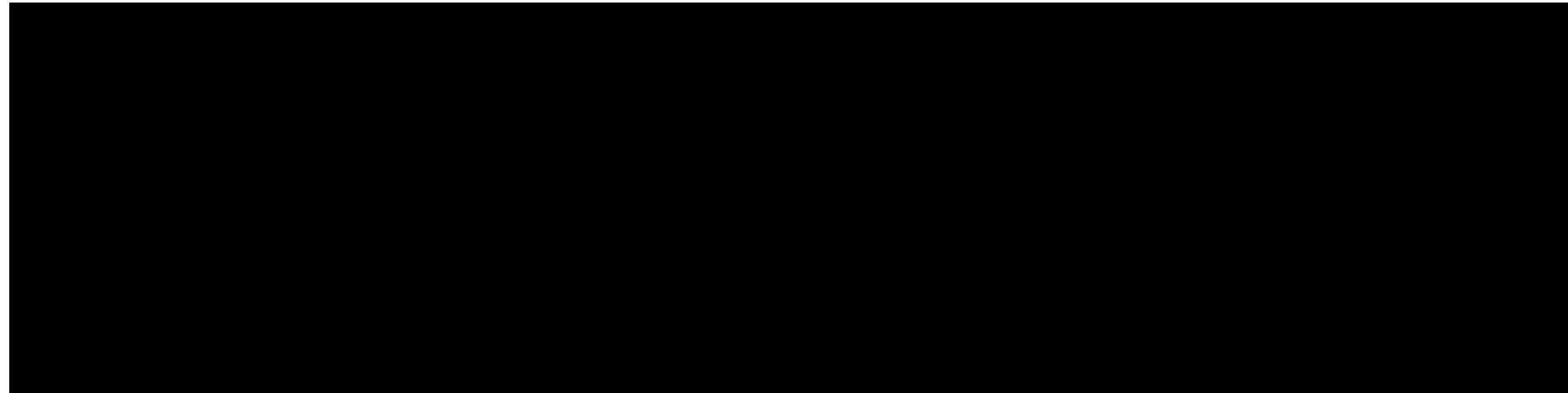
Midland	[REDACTED]	[REDACTED]	2	11/12/2012 18:21	362	[REDACTED]
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Midland	[REDACTED]	[REDACTED]	1	11/13/2012 7:05	392	[REDACTED]
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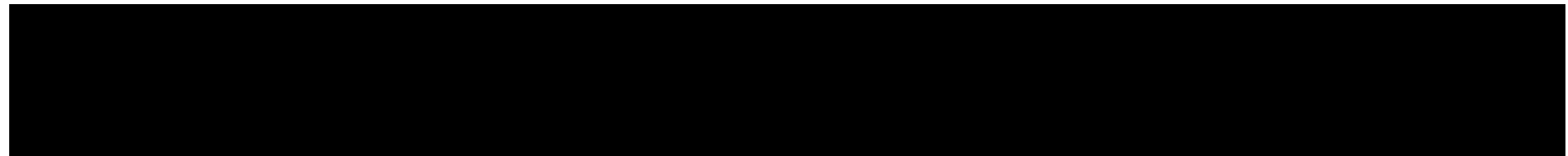


Midland	[REDACTED]	[REDACTED]	2	11/13/2012 23:43	183	[REDACTED]
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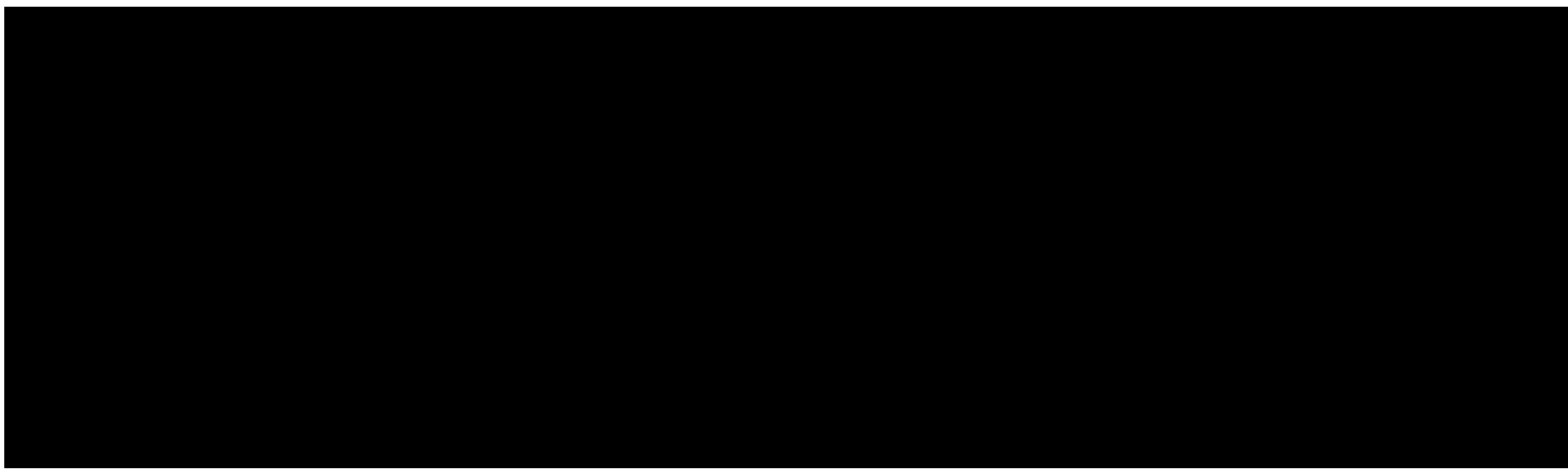
Network Element Name	Mobile Directory Number	Dialed Digit Number	Call Direction	Seizure Dt Tm	Seizure Duration	Calling Party Number
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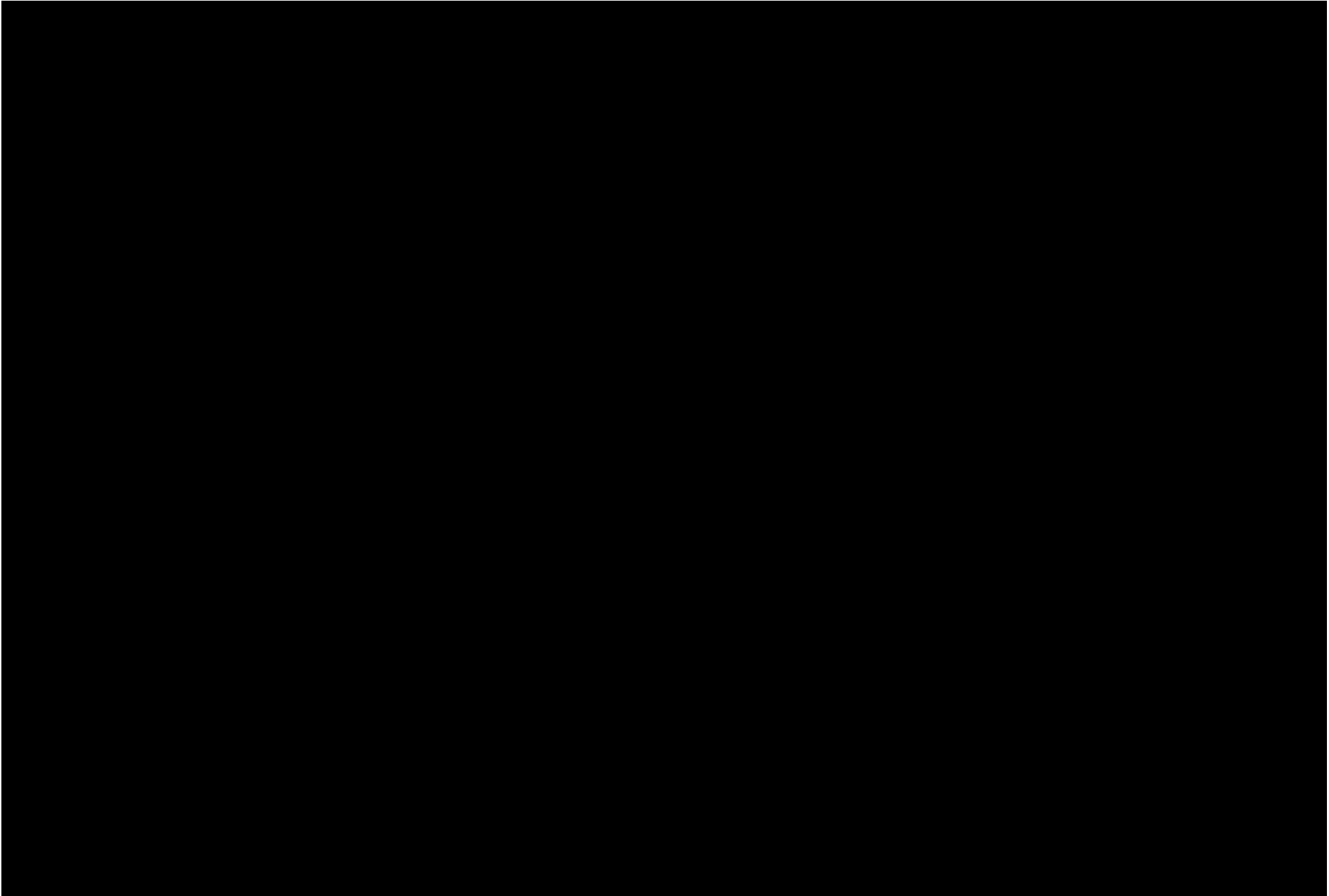
Midland	[REDACTED]	[REDACTED]	1	11/14/2012 21:58	673	[REDACTED]
Midland	[REDACTED]	[REDACTED]	1	11/15/2012 11:30	14	[REDACTED]



Midland	[REDACTED]	[REDACTED]	2	11/15/2012 13:17	36	[REDACTED]
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Network Element Name	Mobile Directory Number	Dialed Digit Number	Call Direction	Seizure Dt Tm	Seizure Duration	Calling Party Number
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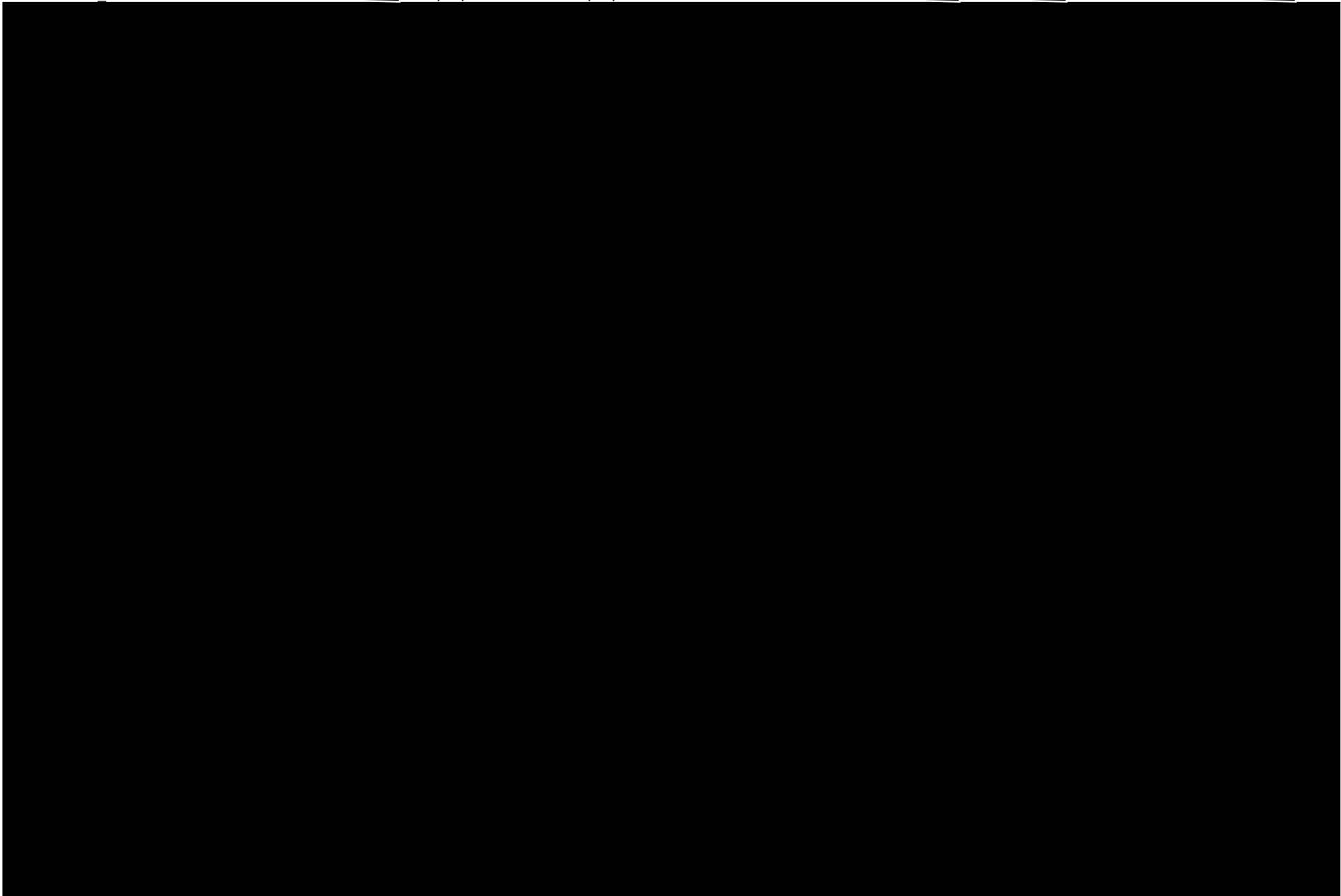


Historical SMS (Text Message) Detail Report Explanation Form

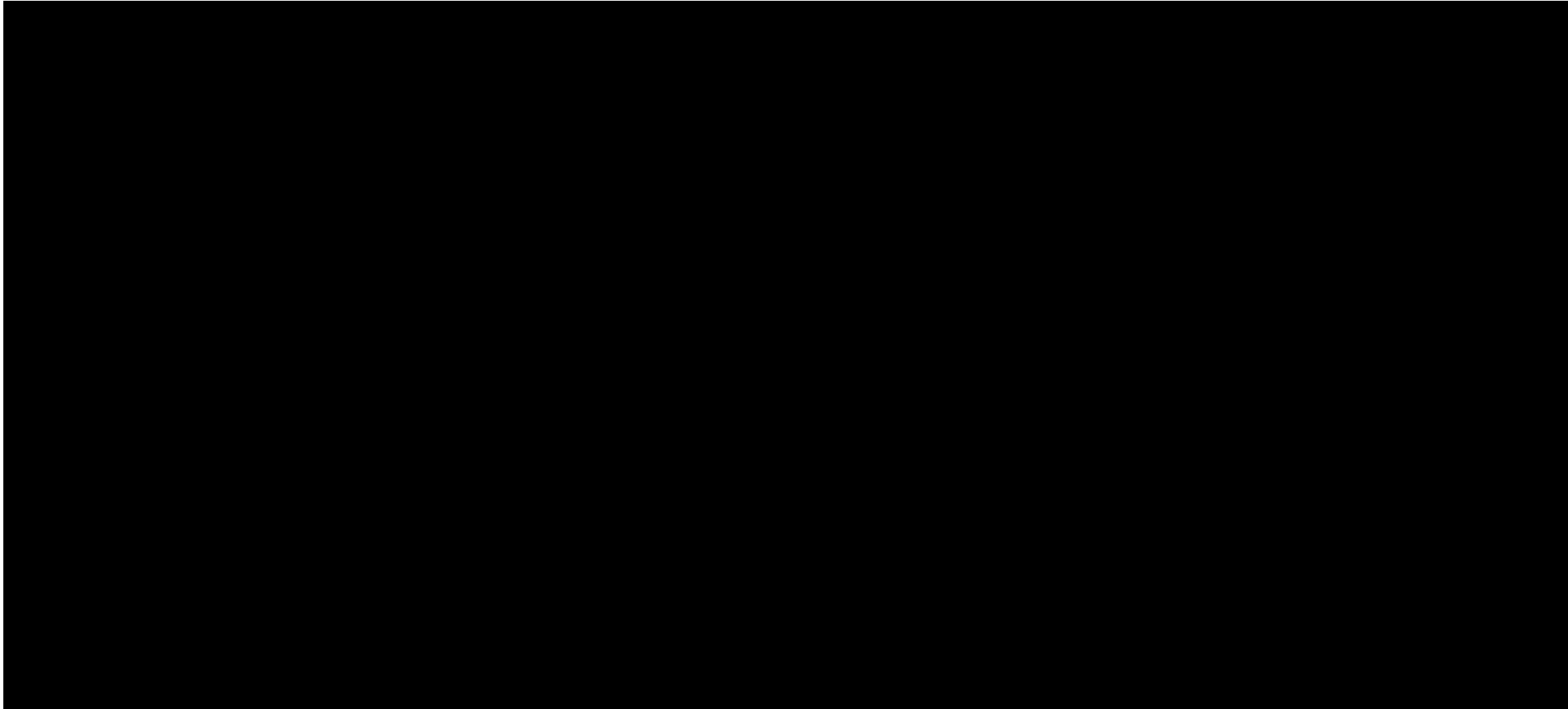
NET_ELEM_NM	MDN	MSG_SND_DT_TM	MSG_DLVR_DT_TM	MSG_CMLPN_STAT	ORIG_ADDR	DEST_ADDR	MSG_DIRN_IND
This is the switch that processed the text message.	This is your Target #.	This is the Date & Time that the text message was sent.	This is the Date & Time when the text message was delivered.	Message completion status indicator.	This is the message sender.	This is the recipient of the message.	This is the direction of the text message.
				01=delivered			1=Incoming, 2=Outgoing 3=Incoming, 4=Outgoing

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NET_ELEM_NM	SWCH_TYPE_IND	MDN	MSG_SND_DT_TM	MSG_DLVR_DT_TM	MSG_CMPLN_STAT	ORIG_ADDR	DEST_ADDR	MSG_DIRN_IND	MIN
Eules SMSC33	L	[REDACTED]	11/12/2012 6:50	11/12/2012 6:51	1	[REDACTED]	[REDACTED]	2	[REDACTED]



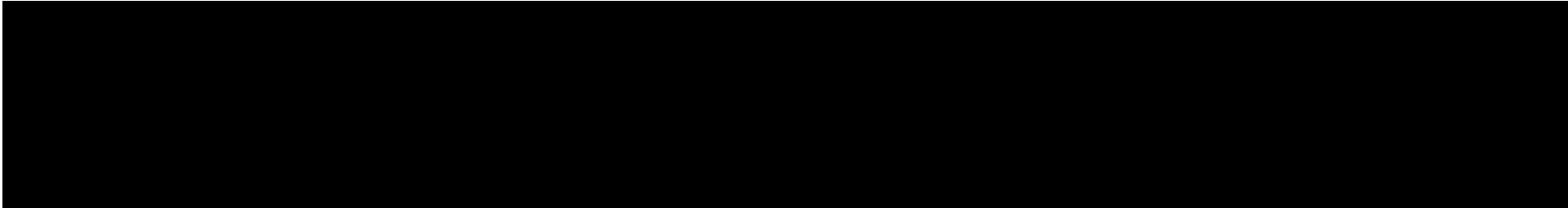
NET_ELEM_NM	SWCH_TYPE_IND	MDN	MSG_SND_DT_TM	MSG_DLVR_DT_TM	MSG_CMPLN_STAT	ORIG_ADDR	DEST_ADDR	MSG_DIRN_IND	MIN
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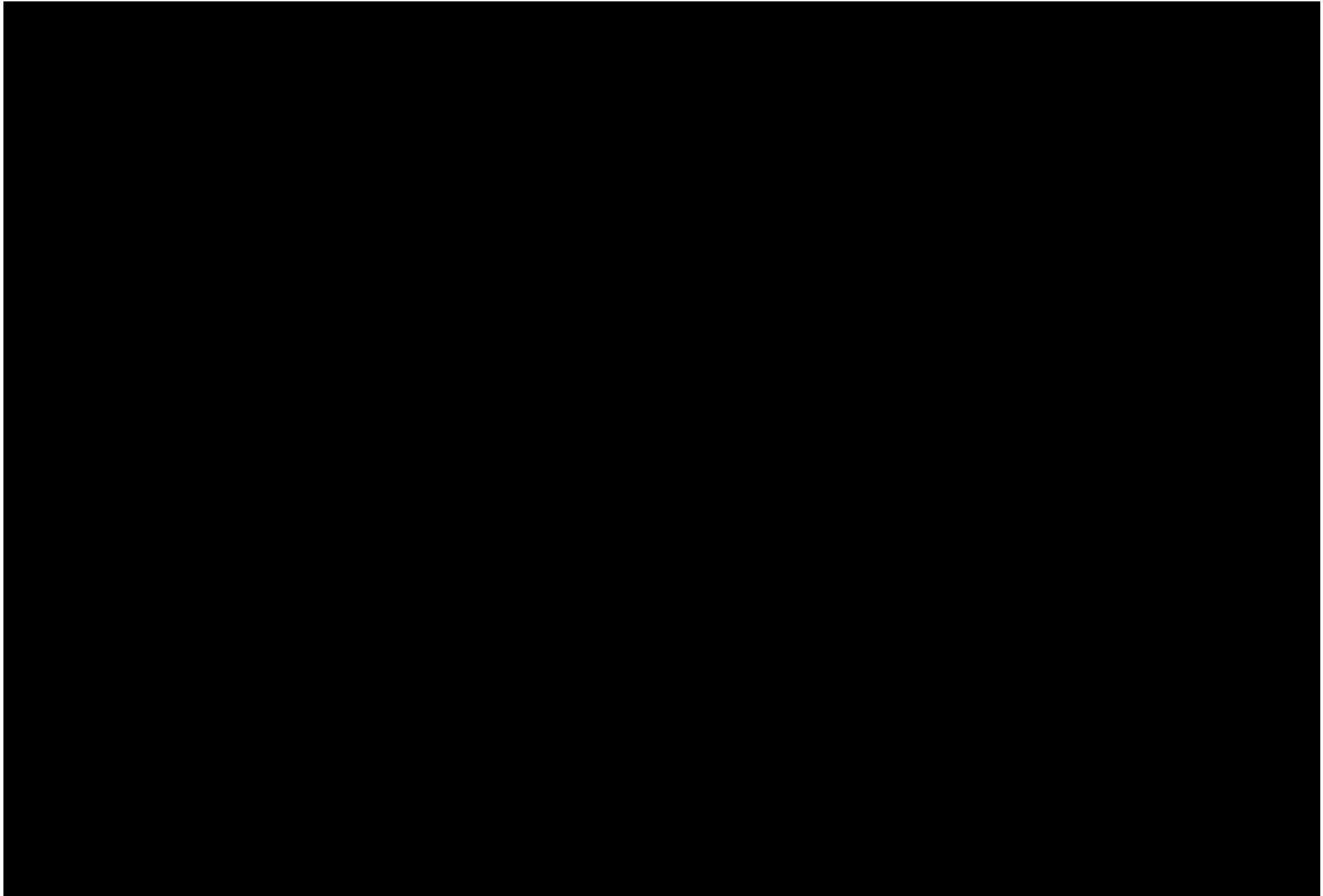
Eules_SMSC33	L		11/12/2012 19:51	11/12/2012 19:51	1			2	
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Eules_SMSC33	L		11/13/2012 6:16	11/13/2012 6:16	1			2	
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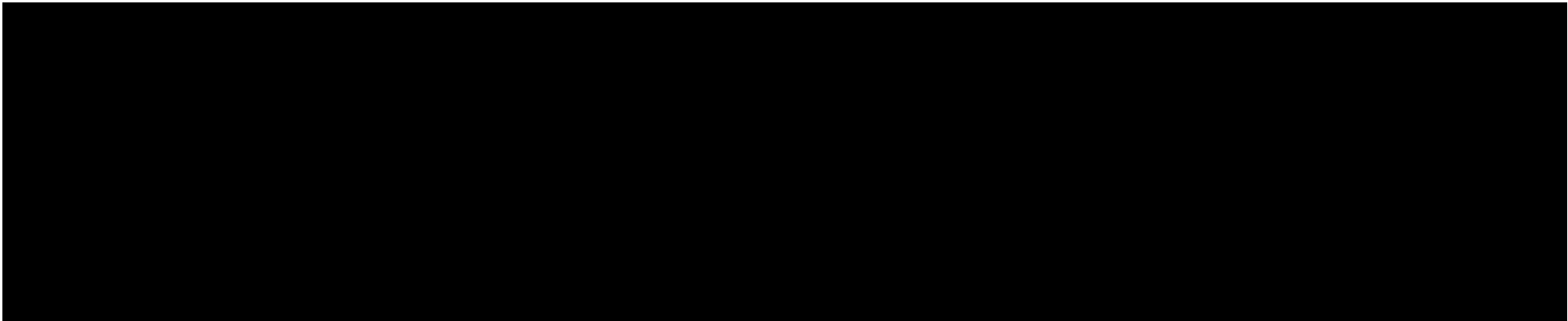
NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMPLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN



NET ELEM NM SWCH TYPE IND MDN MSG SND DT TM MSG DLVR DT TM MSG CMLN STAT ORIG ADDR DEST ADDR MSG DIRN IND MIN



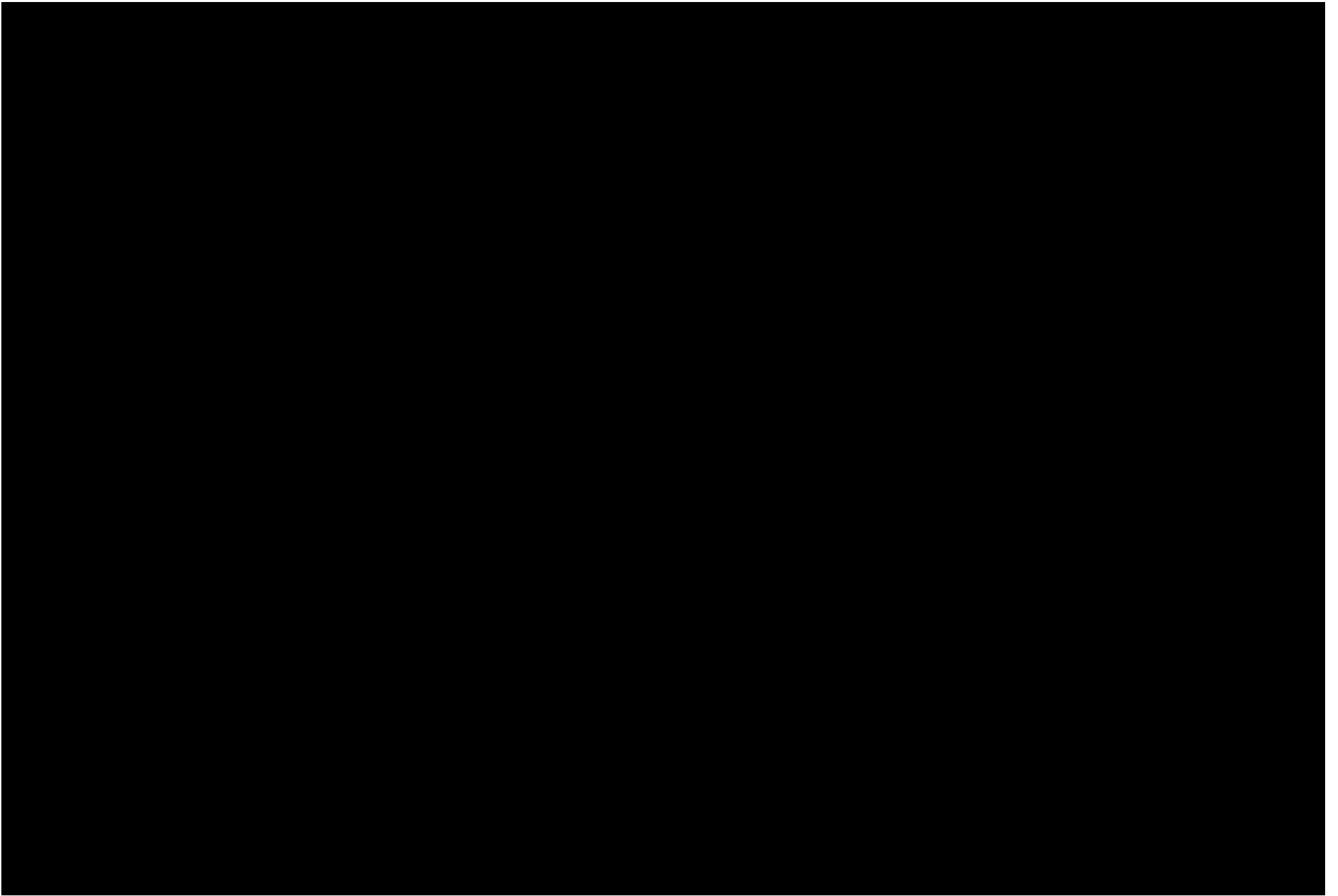
Euless_SMSC33	L	[REDACTED]	11/13/2012 23:19	11/13/2012 23:19	1	[REDACTED]	[REDACTED]	1	[REDACTED]
Euless_SMSC33	L	[REDACTED]	11/14/2012 6:32	11/14/2012 6:33	1	[REDACTED]	[REDACTED]	1	[REDACTED]



NET ELEM NM SWCH TYPE IND MDN MSG SND DT TM MSG DLVR DT TM MSG CMLN STAT ORIG ADDR DEST ADDR MSG DIRN IND MIN

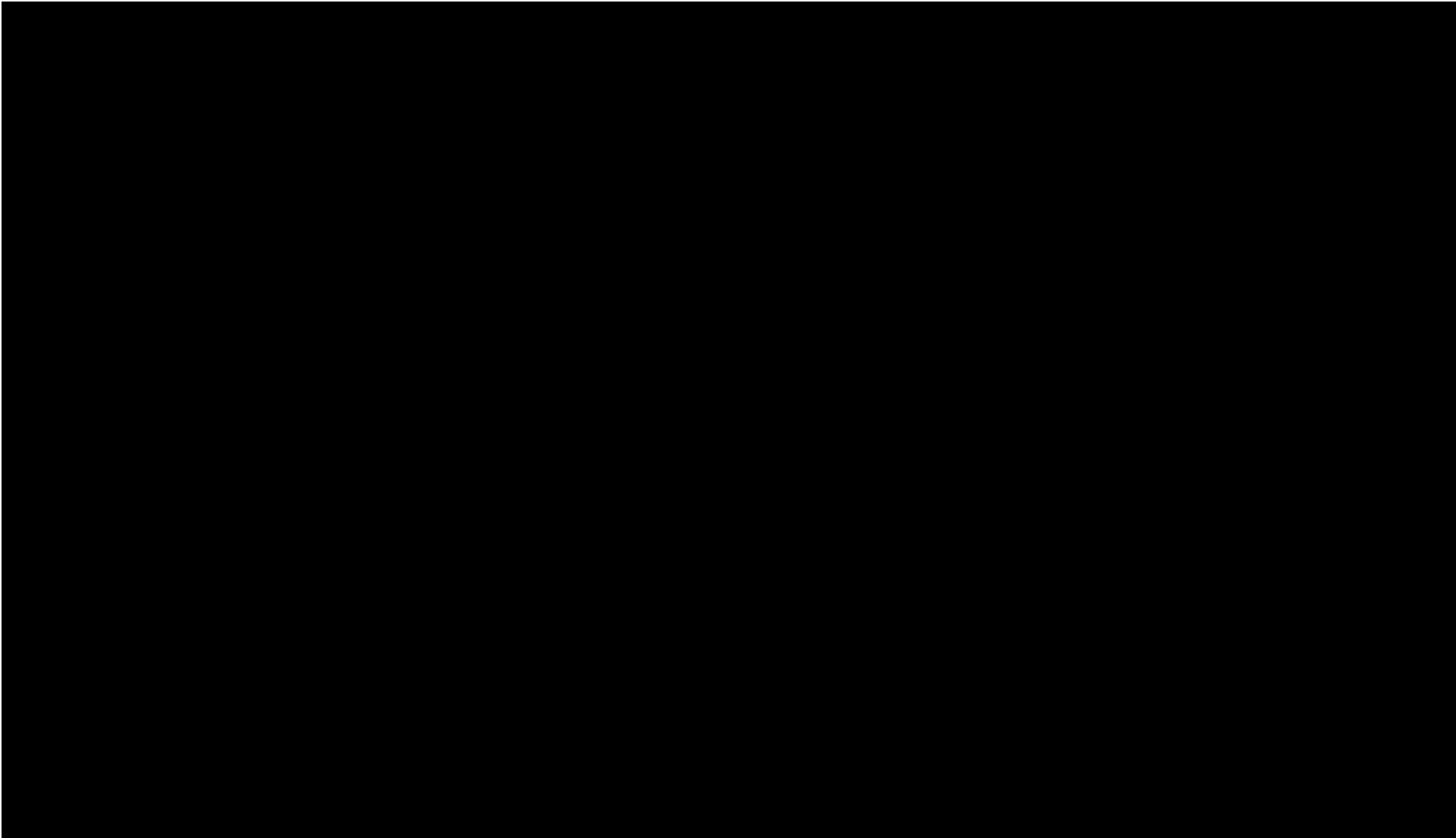
NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMPLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN

NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMPLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN



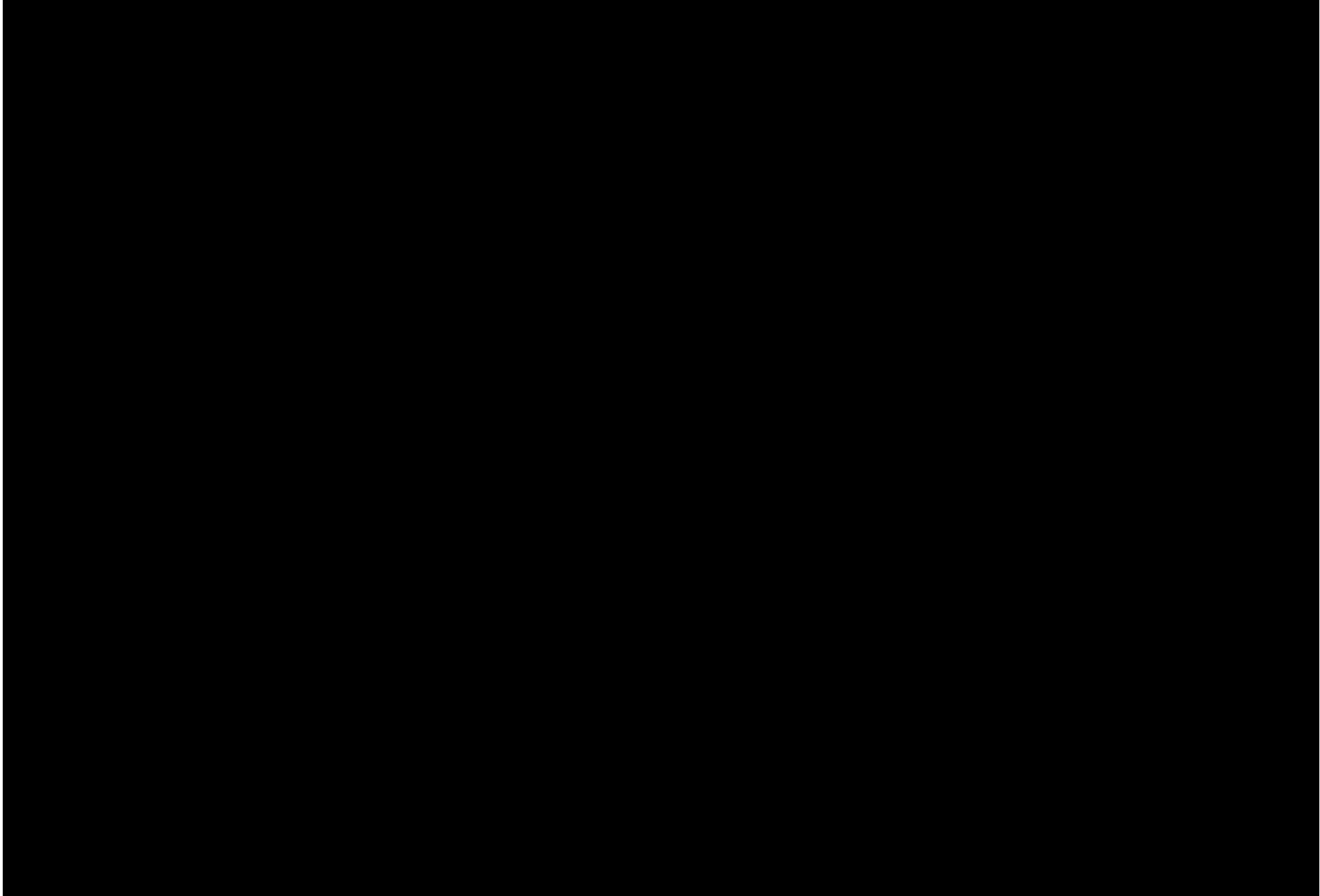
NET ELEM NM SWCH TYPE IND MDN MSG SND DT TM MSG DLVR DT TM MSG CMLN STAT ORIG ADDR DEST ADDR MSG DIRN IND MIN

NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMPLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN

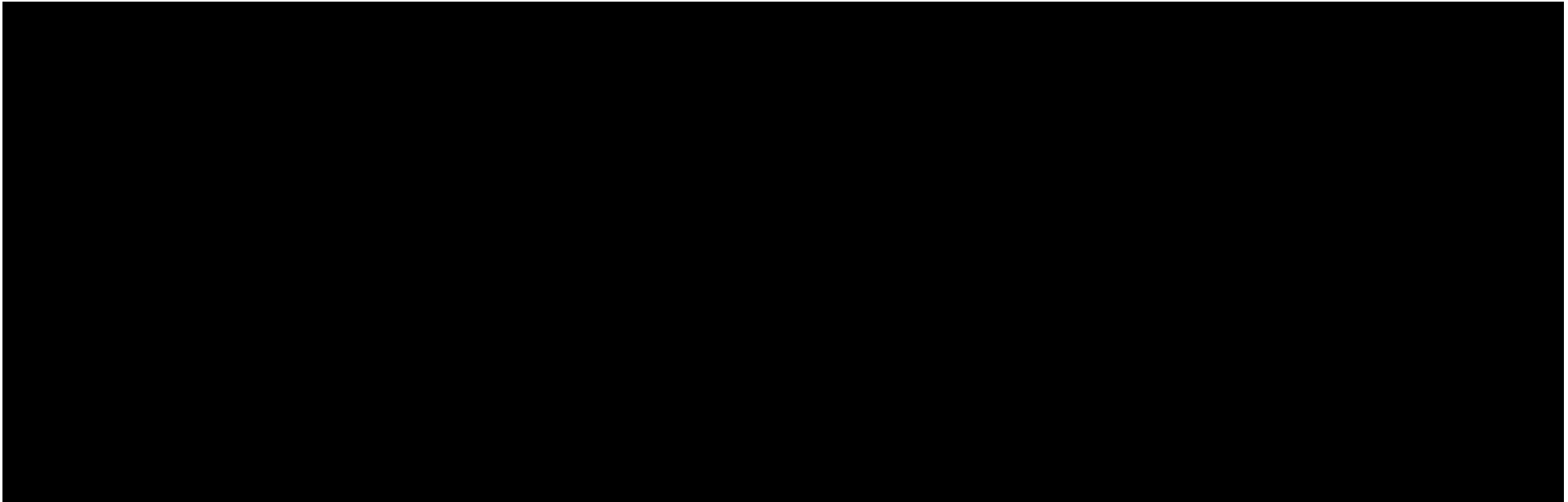


Eules_SMSC33	L	[REDACTED]	11/14/2012 23:06	11/14/2012 23:06	1	[REDACTED]	[REDACTED]	1	[REDACTED]
Eules_SMSC33	L	[REDACTED]	11/15/2012 9:30	11/15/2012 9:30	1	[REDACTED]	[REDACTED]	2	[REDACTED]

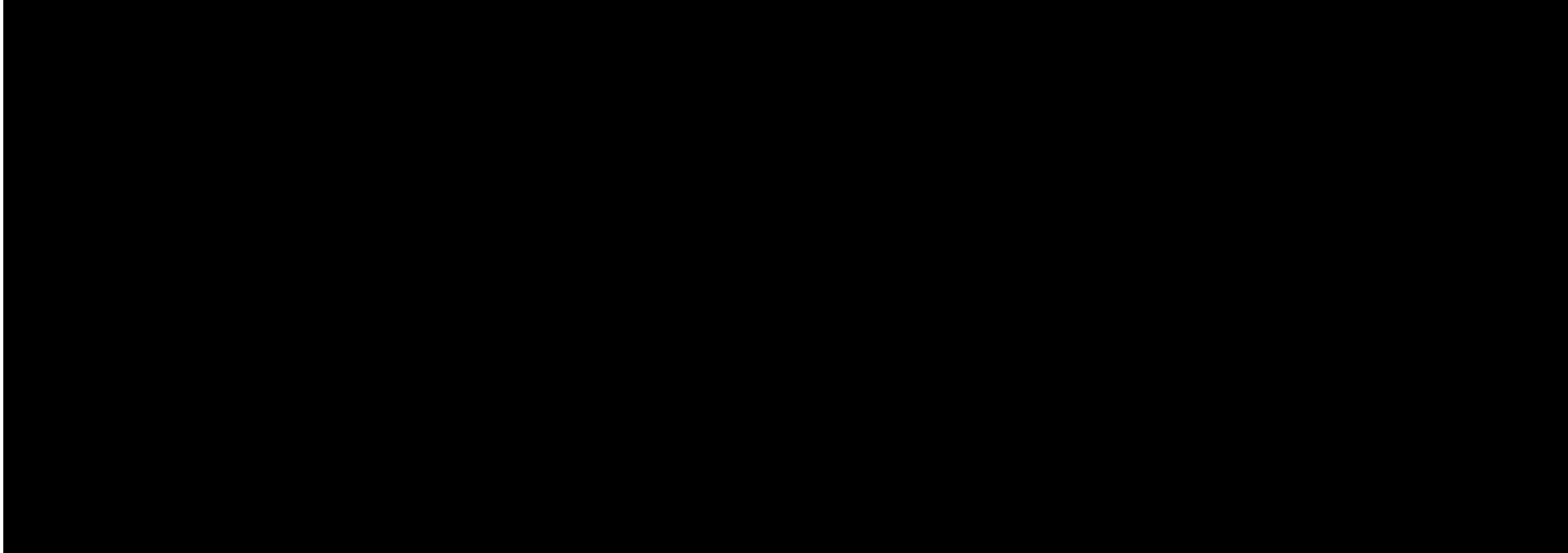
NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMPLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN



NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMPLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN



Eules_SMSC33 L [REDACTED] 11/15/2012 14:06 11/15/2012 14:06 1 [REDACTED] [REDACTED] 1 [REDACTED]



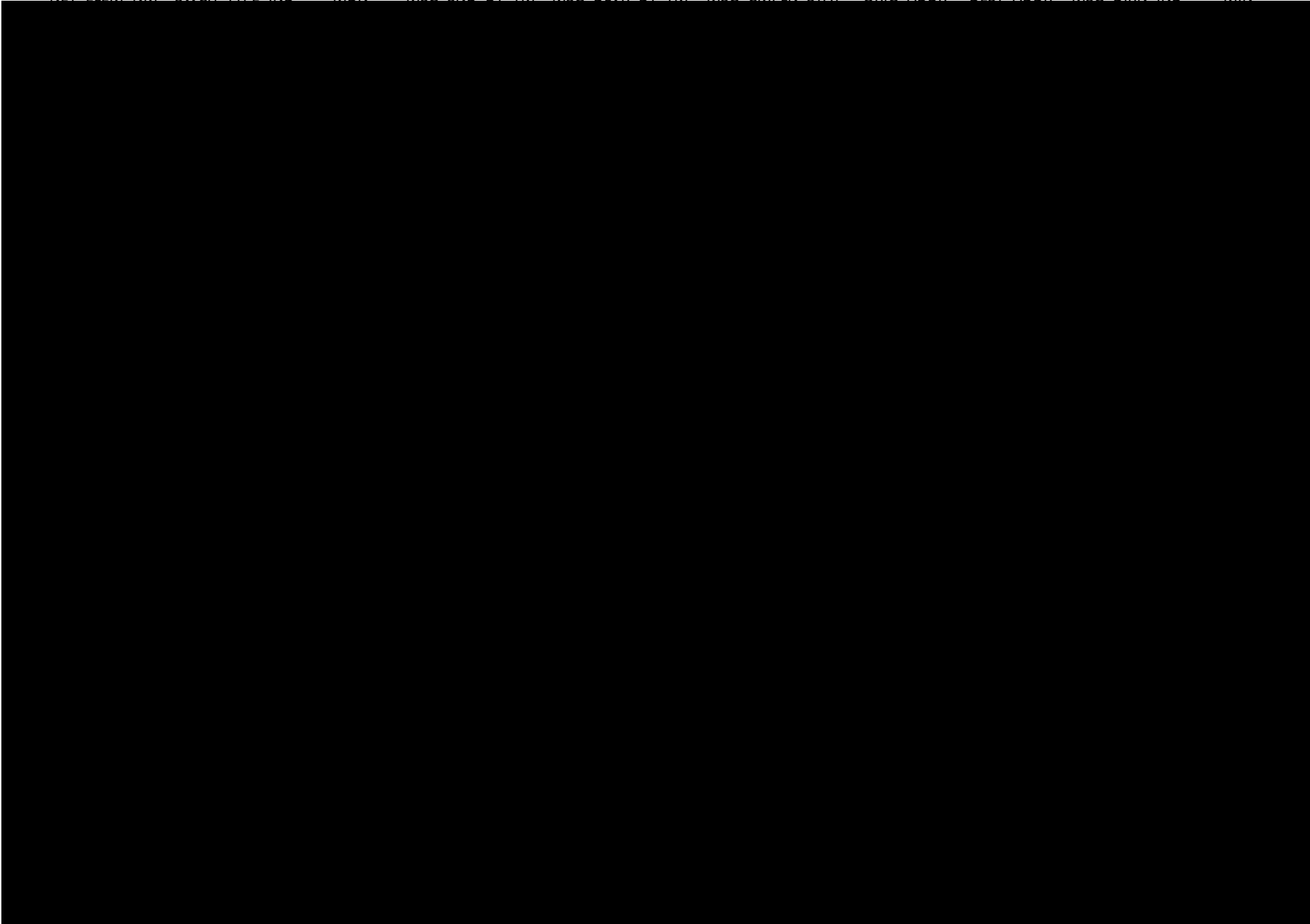
NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMPLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN

NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMPLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN

NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN

NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN

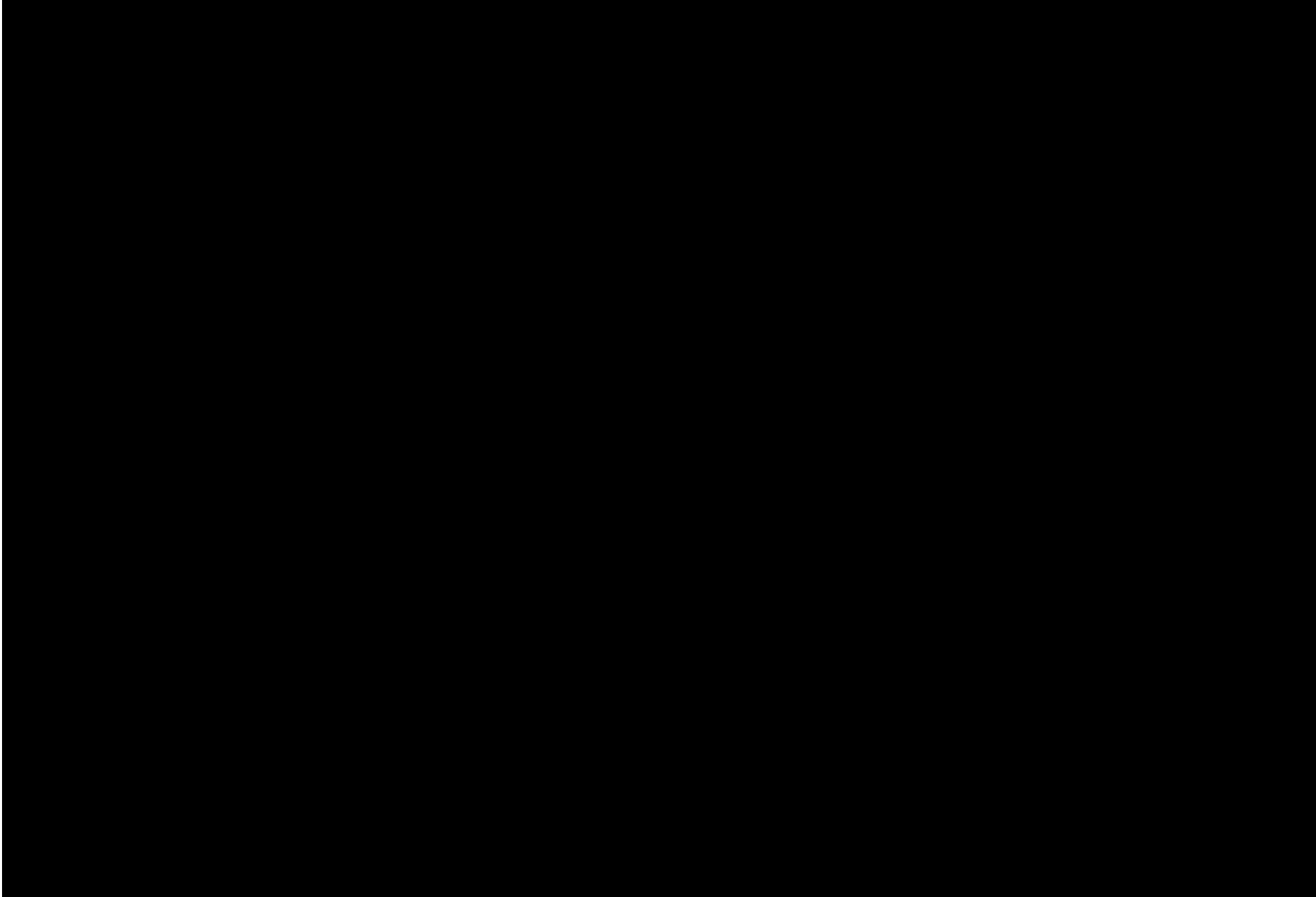
NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN



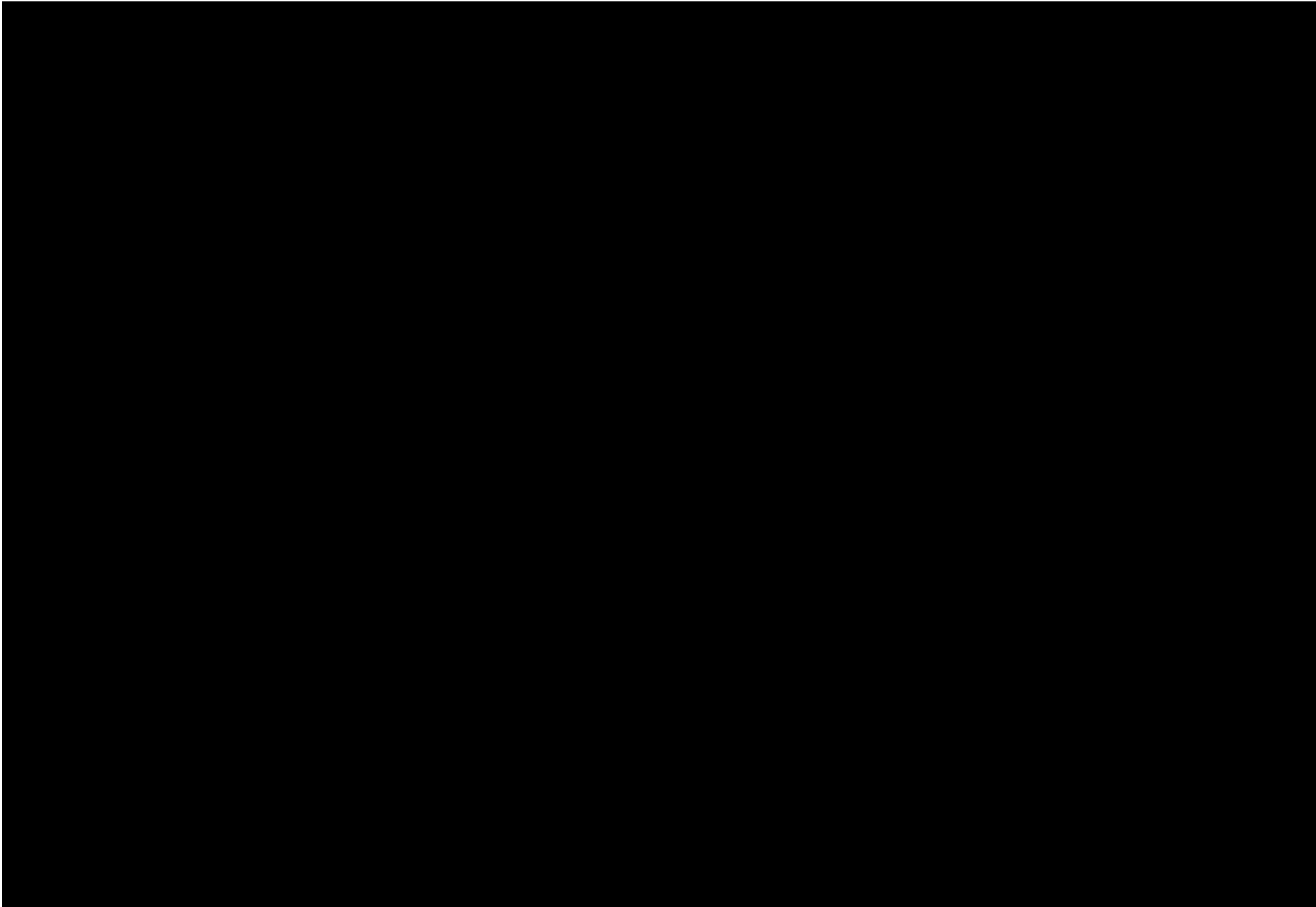
NET ELEM NM SWCH TYPE IND MDN MSG SND DT TM MSG DLVR DT TM MSG CMLN STAT ORIG ADDR DEST ADDR MSG DIRN IND MIN



NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMPLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN



NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMPLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN



NET_ELEM_NM SWCH_TYPE_IND MDN MSG_SND_DT_TM MSG_DLVR_DT_TM MSG_CMPLN_STAT ORIG_ADDR DEST_ADDR MSG_DIRN_IND MIN

Network Element Name	Mobile Directory Number	Dialed Digit Number	Call Direction	Seizure Dt Tm	Seizure Duration	Calling Party Number
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