



Managing Driving Performance - LNG

A guide to understanding and reviewing Contractors' IVMS information.

Review Record

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0	12/11/2014	Issued for use	D Derwin	D Glynn	L Konstanciak

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1. Purpose

This guide has been compiled to help Origin personnel review Contractors driving performance. This is used by utilising and analysing the In Vehicle Monitoring System (IVMS) data.

2. Scope

This guide identifies the key reports used by the main IVMS providers to manage driving performance. In addition, this guide includes a summary of the key questions that can be asked to investigate the data and identify any positive or negative trends such as compliance to speed, seat belts and severity of the exceptions. This can be used by Origin HSE personnel to review Contractors IVMS data and their overall driving performance.

3. How to use this guide

This guide has been compiled to help Origin personnel review Contractors driving performance. This is used by utilising and analysing the In Vehicle Monitoring System (IVMS) data.

This guide identifies the key reports used by the main IVMS providers to manage driving performance. In addition, this guide includes a summary of the key questions that can be asked to investigate the data and identify any positive or negative trends such as compliance to speed, seat belts and severity of the exceptions.







Please follow the steps below to request and analyse the information.

- 1 Identify the Contractor's IVMS provider so that you can request the correct reports.
- 2 Using the table in section 2, ask the Contractor to provide the 4 'standard reports' for the appropriate period (week / month)
- 3 Refer to section 3 of this guide to ask key questions to analyse and interrogate the data
- 4 Refer to Appendices C-I to see a sample of the IVMS providers reports. Your report should be in the same format / style.
- 5 You or the Contractor can seek clarification from the IVMS providers listed in Appendix J

4. IVMS provider reports

Below is the standard list of reports to ask Contractors for. These can be issued to Contractors by their IVMS provider.

If the contractor you are reviewing is using another IVMS provider that is not listed, please request their standard reports for the items in the “Information required” column above.

IVMS Provider	Information required:	Report name:
	all events / exception breaches for the period	Detailed Event Report (version 2)
	all drivers, by site with total kilometres driven	Monthly Trip Report
	health check of units and last download date	Vehicle List Report or Download/ Sat. report
	after hours driving e.g. between 20:00 and 5:00	After hours trip report
	all events / exception breaches for the period	Exceptions Details Report
	all drivers, by site with total kilometres driven	Monthly Trip Report
	health check of units and last download date	Watchdog report
	after hours driving e.g. between 20:00 and 5:00	Information not provided
	all events / exception breaches for the period	Detailed Event Report
	all drivers, by site with total kilometres driven	Monthly Trip Report
	health check of units and last download date	Activity report
	after hours driving e.g. between 20:00 and 5:00	Information not provided
	all events / exception breaches for the period	Origin Report By Fleet
	all drivers, by site with total kilometres driven	Origin Report By Fleet (2 nd tab)
	health check of units and last download date	Unit Health Report
	after hours driving e.g. between 20:00 and 5:00	Out of Hours Report
	all events / exception breaches for the period	Exception Report
	all drivers, by site with total kilometres driven	Risk Management Report
	health check of units and last download date	Device Health check
	after hours driving e.g. between 20:00 and 5:00	After hours report
	all events / exception breaches for the period	Vehicle Exception Report
	all drivers, by site with total kilometres driven	Weekly Utilisation Report
	health check of units and last download date	Information not provided
	after hours driving e.g. between 20:00 and 5:00	Information not provided
	all events / exception breaches for the period	Detailed Event Report
	all drivers, by site with total kilometres driven	Monthly Trip Report
	health check of units and last download date	Health status
	after hours driving e.g. between 20:00 and 5:00	After hours travel report

Please note:

If you are seeking to confirm the ‘event / exception settings’ on the Contractors fleet, you can request a copy of the ‘configuration report’ from the contractors IVMS provider. This report outlines exactly which events and settings are loaded onto each vehicle.

5. Reviewing the reports

Below are some questions to ask to help interrogate the data contained in each report. This information will help assess how well Contractors are managing driving performance.

Report	What to look for	Assessment / Evidence
Event reports	Are the events/exceptions listed meet Origin requirements?	Refer to Appendix A for the event/exception settings contained in the IVMS fact sheet .
	Are there common themes in the event/exceptions per driver or for the report?	Look for positive / negative trends such as: <ul style="list-style-type: none"> • driving after hours, • seat belts, • speeding or • the location of speeding events
	Are drivers identified for each event/exception?	There should be NO unidentified drivers listed such as: <ul style="list-style-type: none"> • ‘pool key # 123’ • ‘temporary tag’ • ‘driver unknown’ • ‘no tag used’
	Examine the severity of event/exception recorded.	Look for the maximum speed listed for the event / exception. Examine the duration of the event. Would you consider it as low, moderate or high risk behaviour? Refer to the IVMS fact sheet for the speeding parameters.
Trip reports	All drivers, by site with total kilometres driven.	Compare: <ul style="list-style-type: none"> • the summary of drivers • exceptions • kilometres vs. what they submit through HSE reporting each month matches Are the Contractor monthly reports accurate or misleading?
Health Check / IVMS status report	How many vehicles are on this list and what is their status.	If data is not being downloaded, significant breaches / patterns of poor driving can be missed. Review vehicles on this list and the date of the unit’s last download. If a vehicle (IVMS unit) has not downloaded for >2 weeks, assign an action to remedy.
After hours trip report	Trips and event/exception that are recorded after dark and before sunrise. e.g. between 20:00 and 5:00	Are there trends of drivers or business units regularly driving after hours and introducing more risk? Caution: some of this driving is justified. Familiarise yourself with your business units / contractors requirements and operational needs.

6. Document Information and History

PROCESS OWNER


Position	Name
LNG Health and Safety Manager	Luke Konstanciak


DOCUMENT HISTORY

Rev	Date	Detailed Changes made in Document	Prepared	Checked	Approved
0	12/11/2014	First Issue	David Derwin	DG	Luke Konstanciak

Appendix A IVMS Fact Sheet

In Vehicle Monitoring Systems (IVMS) Fact Sheet






In accordance with its principal of 'due care' and as part of the Land Transport Directive, Origin has introduced 'In Vehicle Monitoring Systems' (IVMS) to all vehicles operating in rural and remote locations.

Why IVMS?
 The IVMS is a key control in reducing the risk land transport represents to our business, for both light and heavy vehicles. The system has the ability to assist in accident and emergency response, maintaining the projects social licence and reputation by investigating community inquiries promptly and identifying at-risk driver behaviours such as speeding and use of seat belts.

What is IVMS?
 IVMS is a GPS enabled safety tool installed in vehicles to monitor current location and other vehicle operating information. The system is implemented to improve driver and vehicle safety across Origin.

How does IVMS work?
 A monitor is fitted to each vehicle and records data including:

- driver information including location and time of day
- journey duration
- speed and acceleration / deceleration
- seat belt usage
- 4WD being engaged when required
- vehicle impacts and roll over's.



Origin IVMS Exceptions
 The IVMS is configured to be able to identify and report the following driver exceptions:

Exception	Definition	Notification and Reporting
Seatbelt not engaged	Seatbelt not worn by the driver or passenger in a moving vehicle	Immediate audible alert with any movement
Fatigue Management	Exceeding 2 hours driving without a break	• Audible Alert reminder for driver at 1hr 45 minutes. A continuous alert is activated at 2hrs
Tampering with unit	Tampering with an IVMS unit in any way	• Vehicle diagnostics regularly maintained • All potential tampers will be investigated
Light Vehicle speed above designated speed	> 5 km/hr	Audible Alert for driver at >5 km/hr.
	> 5 km/hr for 15 seconds	Continuous audible alert
	> 10 km/hr	Continuous audible alert
	> 15 km/hr	Continuous audible alert
Heavy Vehicle speed above designated speed:	> 5 km/hr	Audible Alert for driver at >5 km/hr.
	> 5 km/hr for 15 seconds	Continuous audible alert
	> 10 km/hr	Continuous audible alert
	> 15 km/hr	Continuous audible alert
Harsh Acceleration	Harsh acceleration >12 km/hr/sec	Included in driver exception reports
Harsh Deceleration	Harsh deceleration >12 km/hr/sec	Included in driver exception reports
Excessive Harsh Deceleration	Harsh deceleration >18 km/hr/sec	Included in driver exception reports

- Each time the vehicle is turned on and the Driver ID tag inserted, the unit will beep 2 times to confirm connectivity.
- Exception Reports will be issued to Exceptions Managers and Supervisors covering driver behaviour and distance travelled.

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Appendix B A guide to interpreting common features of a standard IVMS report

1. Date range of the report	4. Vehicle registration details	7. Event location (sometimes 'Unknown' based on GPS)
2. Driver name	5. Date and Time (start and end)	8. Start and End location of the event
3. Event information e.g. LSR seat belt, speeding	6. Event information (such as time, distance, speed)	9. Lat / Long information which can be plotted into Google maps

30/05/2014 00:00:00 - 30/06/2014 23:59:59																					
Driver	Event Description	Vehicle	Vehicle Registration	Start Date	End Date	Start Time	End Time	Occurs	Total Time	Distance (km)	Start Odo	End Odo	Values	Measurement Units	Start Street	End Street	Start Location	End Location	Start Long/Lat	End Long/Lat	
Latrell Sprewell	Over Speeding > 115 - 15 Seconds - Warning	LNG 039SK - Toyota Prado	039SK	7 June 2014	7/06/2014	08:24:53	08:24:56	1	00:00:03	0.0	0	0	116	Km/h	Warrego Highway	Warrego Highway			149.964 - 26.63922	149.963 - 26.63919	
				7 June 2014	7/06/2014	08:38:04	08:38:06	1	00:00:02	0.0	0	0	117	Km/h	Warrego Highway/A2	Warrego Highway/A2			149.7415 - 26.64303	149.7405 - 26.643	
				Totals																	
Kevin Garnet	Over Speeding > 115 - 15 Seconds - Warning	LNG 653SQT - Toyota Prado	653SQT	2 June 2014	2/06/2014	17:09:43	17:09:44	1	00:00:01	0.0	0	0	116	Km/h	3401 Carnarvon Highway/A55	3401 Carnarvon Highway/A55			148.7404 - 28.29508	148.7405 - 28.29501	
Tim Hardaway	Over Speeding > 115 - 15 Seconds - Warning	LNG 275REZ - Toyota Hilux	275REZ	2 June 2014	2/06/2014	15:03:15	15:03:24	1	00:00:09	0.0	0	0	124	Km/h	Warrego Highway/A2	Warrego Highway/A2			150.3554 - 26.67636	150.3587 - 26.67692	
Chris Mullin	ALERT - Speed > 40km/h in 40kmh zone	LNG 081TCA - Toyota Prado	081TCA	30 June 2014	30/06/2014	15:49:46	15:49:50	1	00:00:04	0.0	0	0	51	Km/h	[UNKNOWN]	[UNKNOWN]	Reedy_Creek_GPF_40km	Reedy_Creek_GPF_40km	149.3789 - 28.35233	149.3763 - 28.35214	
Fire Ute - 504LBQ	ALERT - Speed > 40km/h in 40kmh zone	LNG 584LBQ - Toyota Landcruiser	584LBQ	30 June 2014	30/06/2014	05:38:31	05:38:33	1	00:00:02	0.0	0	0	46	Km/h	[UNKNOWN]	[UNKNOWN]					
Totals																					
Michael Jordan	ALERT - Speed > 40km/h in 40kmh zone	LNG 990RFY - Toyota Hilux	990RFY	27 June 2014	27/06/2014	09:18:18	09:18:21	1	00:00:03	0.0	0	0	46	Km/h	[UNKNOWN]	[UNKNOWN]					
Temporary DIT Chinchilla #1	ALERT - LV >115 km/h	LNG 663TAB - Toyota	663TAB	30 June 2014	30/06/2014	08:30:01	08:30:03	1	00:00:02	0.0	0	56,995.2	116	Km/h	[UNKNOWN]	Warrego Highway					
	ALERT - Speed > 60km/h in 60km/h zone	LNG 663TAB - Toyota Landcruiser	663TAB	30 June 2014	30/06/2014	12:08:54	12:08:58	1	00:00:04	0.0	0	0	70	Km/h	[UNKNOWN]	[UNKNOWN]					
				30 June 2014	30/06/2014	18:07:03	18:07:05	1	00:00:02	0.0	0	0	66	Km/h	610 Wybara Road	Wybara Road	Taloona_GPF_60km	Taloona_GPF_60km	149.0642 - 28.08019	149.0647 - 28.08008	
Totals																					
Hakeem Olajuwon	LSR - Seat Belt Not Used - Driver	LNG 396SGF - Toyota Hilux	396SGF	6 June 2014	6/06/2014	07:41:53	07:55:28	1	24:13:35	0.0	0	0	82	Km/h	[UNKNOWN]	[UNKNOWN]	Spring_Gully_GPF_60km		149.0789 - 25.9715	0_0	
				7 June 2014	7/06/2014	11:44:09	05:32:50	1	17:48:41	0.0	0	0	61	Km/h	[UNNAMEDSTREET]	[UNKNOWN]	Spring_Gully_GPF_60km		149.0788 - 25.97122	0_0	
				8 June 2014	8/06/2014	13:52:26	04:58:43	1	15:06:17	0.0	0	0	63	Km/h	[UNKNOWN]	[UNKNOWN]	Spring_Gully_GPF_60km		149.079 - 25.97144	0_0	
				9 June 2014	9/06/2014	11:21:10	06:04:08	1	18:42:58	0.0	0	0	67	Km/h	[UNNAMEDSTREET]	[UNKNOWN]	Spring_Gully_GPF_60km		149.0789 - 25.97164	0_0	
				26 June 2014	26/06/2014	07:35:41	04:25:12	1	20:49:31	0.0	0	0	57	Km/h	[UNNAMEDSTREET]	[UNKNOWN]	Spring_Gully_GPF_60km		149.079 - 25.97147	0_0	
Totals																					

Please note: Request that IVMS providers ensure that 'Reverse geocoding' is enabled. This relates to the coding of a point location (latitude, longitude) to a readable address or place name.

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Appendix C Standard Report pack from Contractors using Mix telematics

C.1. Detailed Event Report (version2) ~ all events / exception breaches for the period


Detailed Event Report V2		31/08/2014 00:00:00 - 6/09/2014 23:59:59		mX TELEMATICS MOBILE INFORMATION EXCHANGE																		
ENSIGN - AUSTRALIA		-- Current Selection																				
Vehicle	Vehicle Registration Number	Event	Driver	Start Date	End Date	Start Time	End Time	Occurs	Total Time	Distance (km)	Start Odo	End Odo	Values	Measurement Units	Start Street	End Street	Start Location	End Location	Start Long/Lat	End Long/Lat		
	[Flag]	Over Speeding >115 - 15 Seconds		3 September 2014	3/09/2014	10:38:12	10:38:14	1	00:00:02	0.1	182,302.4	182,302.5	122	Km/h	, 1360 Beelbee Road	, 1360 Beelbee Road			150.8344 - 27.10239	150.8346 - 27.10153		
		Over Speeding >120 km/h		3 September 2014	3/09/2014	10:38:07	10:38:12	1	00:00:05	0.2	182,302.2	182,302.4	123	Km/h	, 1360 Beelbee Road	, 1360 Beelbee Road			150.8342 - 27.10386	150.8344 - 27.10239		
				3 September 2014	3/09/2014	10:46:36	10:46:38	1	00:00:02	0.1	182,309.8	182,309.9	124	Km/h	, Dalby-Kogan Road	Dalby-Kogan Road	Kogan-Condomine Highway (Deleted ID #2)	Kogan-Condomine Highway (Deleted ID #2)	150.8748 - 27.0705	150.8757 - 27.07089		
		Totals							2 00:00:07	0.3				124								
		Over Speeding >115 - 15 Seconds	Unknown Driver	4 September 2014	4/09/2014	11:51:26	11:51:31	1	00:00:05	0.1	84,488.3	84,488.4	123	Km/h	Warrego Highway	, 29451 Warrego Highway/A2	Warego Highway - Dalby-Miles (Deleted ID #3)	Warego Highway - Dalby-Miles (Deleted ID #3)	150.3178 - 26.66883	150.3159 - 26.66853		
				4 September 2014	4/09/2014	13:25:42	13:25:43	1	00:00:01	0.0	84,612.5	84,612.5	117	Km/h	, Warrego Highway/A2	, Warrego Highway/A2			149.1194 - 26.58292	149.1188 - 26.58286		
				5 September 2014	5/09/2014	12:00:41	12:00:42	1	00:00:01	0.1	84,906.8	84,906.9	119	Km/h	, Roma-Taroom Road	, Roma-Taroom Road			148.9646 - 26.24097	148.9643 - 26.24144		
				6 September 2014	6/09/2014	15:24:07	15:24:08	1	00:00:01	0.1	85,207.6	85,207.7	116	Km/h	, Carnarvon Highway/A55	, Carnarvon Highway/A55			148.6834 - 25.68386	148.6834 - 25.68442		
				6 September 2014	6/09/2014	16:08:17	16:08:19	1	00:00:02	0.0	85,286.3	85,286.3	120	Km/h	, Carnarvon Highway/A55	, Carnarvon Highway/A55			148.7263 - 26.26719	148.7269 - 26.26819		
		Totals							5 00:00:10	0.3				123								
		Over Speeding >125 km/h		4 September 2014	4/09/2014	11:51:18	11:51:23	1	00:00:05	0.2	84,488.0	84,488.2	127	Km/h	, 29504 Warrego Highway/A2	, 29504 Warrego Highway/A2	Warego Highway - Dalby-Miles (Deleted ID #3)	Warego Highway - Dalby-Miles (Deleted ID #3)	150.3205 - 26.66931	150.3185 - 26.66894		
				6 September 2014	6/09/2014	06:42:51	06:42:52	1	00:00:01	0.1	84,990.1	84,990.2	126	Km/h	, Carnarvon Highway/A55	, Carnarvon Highway/A55			148.7337 - 26.27583	148.7333 - 26.27528		
				6 September 2014	6/09/2014	16:08:08	16:08:12	1	00:00:04	0.1	85,286.0	85,286.1	127	Km/h	, Carnarvon Highway/A55	, Carnarvon Highway/A55			148.7269 - 26.26508	148.7276 - 26.26617		
		Totals							3 00:00:10	0.4				127								
		ALERT - Seat Belt Not Used - Driver		1 September 2014	1/09/2014	09:57:19	09:57:23	1	00:00:04	0.0	19,655.7	19,655.7	9	Km/h	[UNKNOWN]	[UNKNOWN]	Moomba Surrounds New; Moomba Surrounds	Moomba Surrounds New; Moomba Surrounds	140.2771 - 28.24111	140.2772 - 28.24119		
				2 September 2014	2/09/2014	23:48:03	23:48:20	1	00:00:17	0.0	19,865.0	19,865.0	11	Km/h	[UNKNOWN]	[UNKNOWN]	Moomba Surrounds New; Moomba Surrounds	Moomba Surrounds New; Moomba Surrounds	140.3207 - 28.21603	140.3206 - 28.21644		
				2 September 2014	2/09/2014	23:53:08	23:53:14	1	00:00:06	0.0	19,865.1	19,865.1	14	Km/h	[UNKNOWN]	[UNKNOWN]	Moomba Surrounds New; Moomba Surrounds	Moomba Surrounds New; Moomba Surrounds	140.3206 - 28.21647	140.3203 - 28.21642		
		Totals							3 00:00:27	0.0				14								

C.2. Summary trip report ~ all drivers, by site with total kilometres driven

Summary Trip Report COMPANY NAME From 1/08/2014 To 31/08/2014											
Driver	Site Name	Driving Time vs Standing Time	Driving Time (hh:mm:ss)	Standing Time (hh:mm:ss)	Duration (hh:mm:ss)	Idle Time (hh:mm:ss)	Parking Time (hh:mm:ss)	Distance (km)	Avg. Speed (km/h)	Max Speed (km/h)	Days with Trips
Driver Name 01	Moomba		02:30:16	00:00:46	02:31:02	00:03:33	741:28:58	181.60	72.51	91.00	2
Driver Name 02	Toowoomba		28:38:43	01:00:54	29:39:37	04:24:25	714:20:23	824.50	28.78	66.00	17
Driver Name 03	Adelaide		01:30:02	00:47:47	02:17:49	00:54:42	741:42:11	57.10	38.05	92.00	3
Driver Name 04	Toowoomba		00:40:02	00:09:11	00:49:13	00:15:00	743:10:47	18.90	28.33	67.00	2
Driver Name 05	Toowoomba		01:59:27	00:29:40	02:29:07	00:55:20	741:30:53	47.00	23.61	77.00	3
Driver Name 06	Toowoomba		02:29:50	00:10:45	02:40:35	00:07:24	741:19:25	165.20	66.15	110.00	2
Driver Name 07	Toowoomba		15:04:31	01:40:47	16:45:18	02:19:41	727:14:42	572.90	38.00	108.00	12
Driver Name 08	Toowoomba		00:40:42	00:02:21	00:43:03	00:08:38	743:16:57	20.90	30.81	64.00	2
Driver Name 09	Toowoomba		15:56:29	02:00:08	17:56:37	02:41:44	726:03:23	539.90	33.87	43.00	18
Driver Name 10	Toowoomba		00:14:18	00:01:35	00:15:53	00:03:36	743:44:07	6.80	28.53	70.00	3
Driver Name continued..	Toowoomba		00:17:31	00:07:51	00:25:22	00:09:29	743:34:38	4.40	15.07	45.00	3
Totals			6561:42:34	2157:37:40	8719:20:14	1540:06:24	368774:40:24	310,117.9			4
Averages			12:59:36	04:15:20	17:11:52	03:02:15	727:21:58	611.7	45.24		8



C.3. Health Check / IVMS status report ~ health check of units and last download date

Vehicle List Report						
ORIGIN ENERGY - QLD						
Vehicle Type selection: ALL						
Vehicle ID	Registration No.	Description	Site Name	Unit Type	Last Trip	Odometer End km
3132	011SPC	LNG 011SPC - Toyota Hilux	GAT 01	FM 3306/3316	24/09/2014 11:17 AM	39,810.00
3144	012SPC	LNG 012SPC - Toyota Hilux	GAT 01	FM 3306/3316	12/09/2014 12:40 PM	34,571.50
3137	013SPC	LNG 013SPC - Toyota Hilux	GAT 01	FM 3306/3316	24/09/2014 9:17 AM	34,930.60
3214	013SZD	LNG 013SZD - Toyota Hilux	GAT 01	FM 3306/3316	24/09/2014 11:15 AM	30,768.50
3138	014SPC	LNG 014SPC - Toyota Hilux	GAT 01	FM 3306/3316	25/09/2014 9:42 AM	37,359.40
3210	014SZD	LNG 014SZD - Toyota Hilux	GAT 01	FM 3306/3316	31/07/2014 4:14 PM	23,993.00
3077	215SJV	LNG 215SJV - Toyota Hilux	GAT 01	FM 3306/3316	24/09/2014 2:43 PM	28,730.00
3075	216SJV	LNG 216SJV - Toyota Prado	GAT 01	FM 3306/3316	24/09/2014 11:53 AM	42,164.60
3078	217SJV	LNG 217SJV - Toyota Hilux	GAT 01	FM 3306/3316	25/09/2014 9:03 AM	52,541.40
3208	277SXX	LNG 277SXX - Toyota Hilux	GAT 01	FM 3306/3316	5/08/2014 1:31 PM	20,887.60

After hours trip report ~ after hours driving e.g. between 20:00 and 5:00

Sample report not provided.

Appendix D Standard Report pack from Contractors using Securatrak

D.1. Detailed Event Report ~ all events / exception breaches for the period

Origin Energy														
Exceptions Details Report														
Sep 17, 2014														
From	Jul 01, 2014	Distance Unit	km											
To	Aug 31, 2014	Speed Unit	km/h											
Device	Device Group	Driver	Driver Group	ExceptionRule	Longitude	Latitude	Location	Location Zone	Types	Date	Start Time	Duration	Distance	Details
vehicle16	GROUP9	DRIVER1	GROUP9	Origin - Harsh Braking > 12KPH/S	152.977909	-27.3892403	35 Queens Rd, Brisbane, QLD 4053			Wednesday, 23 July 2014	4:59:19 PM	0:00	0.01	Origin - Harsh Braking > 12KPH/S (, Acceleration forward or braking: -0.59 g)
vehicle15	GROUP8	DRIVER6	GROUP8	Origin - Harsh Acceleration > 12KPH/S	152.988684	-27.3796568	Beckett Rd, McDowall, QLD 4053			Wednesday, 23 July 2014	5:01:49 PM	0:00	0.00	Origin - Harsh Acceleration > 12KPH/S (, Acceleration forward or braking: 0.45 g)
vehicle17	GROUP6	DRIVER2	GROUP6	Origin - Harsh Braking > 12KPH/S	153.028269	-27.3894049	62 Wallace St, Cherside, QLD 4032			Thursday, 24 July 2014	4:07:41 AM	0:00	0.02	Origin - Harsh Braking > 12KPH/S (, Acceleration forward or braking: -0.40 g)
vehicle19	GROUP6	DRIVER6	GROUP6	Origin - Harsh Braking > 12KPH/S	152.970595	-27.3889351	Timms Rd, Everton Hills, QLD 4053			Thursday, 24 July 2014	4:52:30 PM	0:00	0.01	Origin - Harsh Braking > 12KPH/S (, Acceleration forward or braking: -0.45 g)
vehicle9	GROUP8	DRIVER3	GROUP8	Origin - Driver Seatbelt LSR	152.948837	-27.4165607	Street, Keperra, QLD 4054			Friday, 25 July 2014	7:03:30 AM	0:00	0.02	Origin - Driver Seatbelt LSR (Max Speed: 11 km)
vehicle10	GROUP9	DRIVER4	GROUP9	Origin - Driver Seatbelt LSR	150.347609	-26.8831562	Talinga_GPF_40km: Nangram	ORIGIN 40		Thursday, 31 July 2014	3:37:12 PM	0:00	0.31	Origin - Driver Seatbelt LSR (Max Speed: 31 km)
vehicle1	GROUP1	DRIVER1	GROUP1	Origin - 4WD Engaged > 80kph	148.74027	-26.5521838	450 Dargal Rd, Dargal Road, QLD 4455			Tuesday, 5 August 2014	1:29:17 PM	0:00	0.51	Origin - 4WD Engaged > 80kph (Max Speed: 83 km)
vehicle14	GROUP9	DRIVER5	GROUP9	Origin - Fatigue Warning 2h30m	149.188766	-26.5868549	George St, Wallumbilla, QLD 4428			Thursday, 7 August 2014	6:40:15 PM	2:35	190.91	Origin - Fatigue Warning 2h30m
vehicle25	GROUP8	DRIVER3	GROUP8	Origin - LV Speed Exceeding 125kph	148.685577	-26.5445374	Dargal Rd, Bungeworgorai, QLD 4455			Monday, 11 August 2014	9:33:44 AM	0:00	0.14	Origin - LV Speed Exceeding 125kph (Max Speed: 127 km)
vehicle24	GROUP7	DRIVER2	GROUP7	Origin - LV Speed Exceeding 120kph	148.707644	-26.5478269	698 Dargal Rd, Dargal Road, QLD 4455			Monday, 11 August 2014	9:34:53 AM	0:00	0.17	Origin - LV Speed Exceeding 120kph (Max Speed: 122 km)
vehicle23	GROUP6	DRIVER1	GROUP6	Origin - HV Speed Exceeding 110kph	150.541845	-24.2712152	Dawson Hwy, Callide, QLD 4715			Tuesday, 26 August 2014	4:35:48 PM	0:00	0.08	Origin - HV Speed Exceeding 110kph (Max Speed: 111 km)
vehicle22	GROUP9	DRIVER6	GROUP9	Origin - HV Speed Exceeding 105kph > 15s	150.335174	-26.6728076	Warrego Hwy, Columboola, QLD 4415			Wednesday, 27 August 2014	9:43:00 AM	0:02	4.28	Origin - HV Speed Exceeding 105kph > 15s (Max Speed: 107 km)

Monthly Trip Report ~ all drivers, by site with total kilometres driven

Sample report not provided.

D.2. Health Check / IVMS status report ~ health check of units and last download date

Origin Energy												
Watchdog Report												
		Device Status	Count									
Distance Unit	km	OK	5									
Movement Interval (hours)	24	OK (Not moving in the past 24 hours)	0									
Send Report	TRUE	Not Communicating	4									
Device	Device Group	Device Status	Days Since Last Trip	Days Since Last Download	Last Communication	Device Movement	Serial No.	Last Trip Record	Last GPS Record	Last Debug Data	Last Known Address	See Location
(018ABC) Toyota Hilux	PROJECT2	Not Communicating		6 days	Sep 17, 2014 11:28:55 AM	NO	GVE020CB	09/04/2014 5:39:48 PM	09/17/2014 11:28:53 AM	09/17/2014 11:28:55 AM	Hangar Dr, Roma, QLD 4455	Click to See Location
(059ABC) Toyota Hilux	PROJECT4	OK			Sep 23, 2014 4:59:00 PM	YES	GV6620CB	09/23/2014 4:26:48 PM	09/23/2014 4:58:59 PM	09/23/2014 4:59:00 PM	Beilba	Click to See Location
(074ABC) Nissan Navara	PROJECT2	OK			Sep 23, 2014 5:10:04 PM	YES	GVA620CA	09/23/2014 5:08:52 PM	09/23/2014 5:09:08 PM	09/23/2014 5:10:04 PM	The Bend Rd, Mooga, QLD 4455	Click to See Location
(112ABC) Toyota Landcruiser	PROJECT4	OK			Sep 23, 2014 4:59:44 PM	YES	GV3E20CB	09/23/2014 4:59:28 PM	09/23/2014 4:59:43 PM	09/23/2014 4:59:44 PM	Baroondah	Click to See Location
(134ABC) Toyota HiLux	PROJECT4	Not Communicating		13 days	Sep 10, 2014 3:37:39 PM	NO	GV4520C9	09/10/2014 3:37:14 PM	09/10/2014 3:37:35 PM	09/10/2014 3:37:39 PM	8 Timms Ct, Woodridge, QLD 4114	Click to See Location
(136ABC) Mitsubishi Fuso	PROJECT2	Not Communicating		29 days	Aug 25, 2014 6:48:16 AM	NO	G6F520CB	08/23/2014 4:21:08 PM	08/25/2014 6:48:16 AM	08/25/2014 12:48:16 AM	Mooga	Click to See Location
(201ABC) Nissan Navara	PROJECT2	OK			Sep 23, 2014 4:47:45 PM	YES	GVFF20CA	09/23/2014 4:47:02 PM	09/23/2014 4:47:21 PM	09/23/2014 4:47:45 PM	Mooga	Click to See Location
(216ABC) Nissan Navara	PROJECT2	Not Communicating		27 days	Aug 27, 2014 8:04:54 AM	NO	GVD320CA	08/20/2014 9:43:53 AM	08/27/2014 8:04:41 AM	08/27/2014 8:04:54 AM	9 Geonic St, Woodridge, QLD 4114	Click to See Location

After hours trip report ~ after hours driving e.g. between 20:00 and 5:00

Sample report not provided.

Appendix E Standard Report pack from Contractors using Navman Wireless

E.1. Detailed Event Report ~ all events / exception breaches for the period

Fleet	Vehicle	Weight Type	Driver	Rule	Start at	Finish at	Max Speed	Zone	Location	Start Lat
Subcontractor 1	Example 2	LV	Name Surname	LV > 115 km/hr	24-09-2014 04:14:01	24-09-2014 04:14:05	118		Warrego Highway, Blythdale QLD 4455, Australia	Pending
Subcontractor 1	Example 3	LV	Name Surname	LV > 115 km/hr	24-09-2014 04:14:07	24-09-2014 04:14:08	119		Warrego Highway, Blythdale QLD 4455, Australia	Pending
Subcontractor 1	Example 4	LV	Name Surname	LV > 115 km/hr	24-09-2014 04:14:10	24-09-2014 04:14:11	116		Warrego Highway, Blythdale QLD 4455, Australia	Pending
Subcontractor 1	Example 5	LV	Name Surname	LV > 115 km/hr	24-09-2014 04:14:20	24-09-2014 04:14:21	116		Warrego Highway, Blythdale QLD 4455, Australia	Pending
Subcontractor 2	Example 6	LV	Name Surname	5 km/hr above speed limit	24-09-2014 04:45:32	24-09-2014 04:45:35	47	Condabri_South_GPF_40km	Ellerslie Land Road, Condamine QLD 4416, Australia	Pending
Subcontractor 2	Example 7	LV	Name Surname	11 - 15 km/hr above speed limit	24-09-2014 04:51:29	24-09-2014 04:51:41	54	Condabri_South_GPF_40km	Ellerslie Land Road, Condamine QLD 4416, Australia	Pending
Subcontractor 3	Example 8	LV	Name Surname	5 km/hr above speed limit	24-09-2014 06:15:29	24-09-2014 06:15:40	51	Reedy_Creek_GPF_40km	Unnamed Road, Wallumbilla North QLD 4428, Australia	Pending
Subcontractor 3	Example 9	LV	Name Surname	Harsh Acceleration	24-09-2014 06:20:26	24-09-2014 06:20:26	9		Unnamed Road, Durham Downs QLD 4454, Australia	Pending
Subcontractor 3	Example 10	LV	Name Surname	5 km/hr above speed limit	24-09-2014 06:21:20	24-09-2014 06:21:30	49	Reedy_Creek_GPF_40km	Unnamed Road, Wallumbilla North QLD 4428, Australia	Pending
Subcontractor 3	Example 11	LV	Name Surname	Harsh Acceleration	24-09-2014 06:21:36	24-09-2014 06:21:36	10		1120 Wybara Road, Durham Downs QLD 4454, Australia	Pending
Subcontractor 3	Example 12	LV	Name Surname	5 km/hr above speed limit	24-09-2014 06:22:33	24-09-2014 06:22:36	46	Reedy_Creek_GPF_40km	Unnamed Road, Wallumbilla North QLD 4428, Australia	Pending
Subcontractor 3	Example 13	LV	Name Surname	5 km/hr above speed limit	24-09-2014 06:22:38	24-09-2014 06:22:44	47	Reedy_Creek_GPF_40km	Unnamed Road, Wallumbilla North QLD 4428, Australia	Pending
Subcontractor 3	Example 14	LV	Name Surname	5 km/hr above speed limit	24-09-2014 06:23:19	24-09-2014 06:23:21	46	Reedy_Creek_GPF_40km	Unnamed Road, Wallumbilla North QLD 4428, Australia	Pending
Subcontractor 3	Example 15	LV	Name Surname	5 km/hr above speed limit	24-09-2014 06:23:23	24-09-2014 06:23:32	48	Reedy_Creek_GPF_40km	Unnamed Road, Wallumbilla North QLD 4428, Australia	Pending
Subcontractor 3	Example 16	LV	Name Surname	5 km/hr above speed limit	24-09-2014 06:24:14	24-09-2014 06:24:21	49	Reedy_Creek_GPF_40km	Unnamed Road, Wallumbilla North QLD 4428, Australia	Pending
Subcontractor 2	Example 17	LV	Name Surname	16+ km/hr above speed limit	24-09-2014 06:25:39	24-09-2014 06:25:56	65	Condabri_South_GPF_40km	Ellerslie Land Road, Condamine QLD 4416, Australia	Pending
Subcontractor 3	Example 18	LV	Name Surname	5 km/hr above speed limit	24-09-2014 06:27:11	24-09-2014 06:27:13	88	ReedyCreek_Combabula_80km	Clifford Yuleba Road, Clifford QLD 4427, Australia	Pending
Subcontractor 3	Example 19	LV	Name Surname	5 km/hr above speed limit	24-09-2014 06:29:00	24-09-2014 06:29:05	88	ReedyCreek_Combabula_80km	Clifford Yuleba Road, Clifford QLD 4427, Australia	Pending
Subcontractor 2	Example 20	LV	Name Surname	16+ km/hr above speed limit	24-09-2014 06:29:38	24-09-2014 06:29:58	65	Condabri_South_GPF_40km	Ellerslie Land Road, Condamine QLD 4416, Australia	Pending
Subcontractor 3	Example 21	LV	Name Surname	5 km/hr above speed limit	24-09-2014 06:33:49	24-09-2014 06:33:55	49	Combabula_GPF_40km	Unnamed Road, Clifford QLD 4427, Australia	Pending

Monthly Trip Report ~ all drivers, by site with total kilometres driven

Sample report not provided.

E.2. Health Check / IVMS status report ~ health check of units and last download date


Activity Report By Vehicle For 21/09/2014						
Printed for: Daron Brinsdon			Printed on: 22/09/2014			
Vehicle: Dave Brown 1EAA855		Group: Sales				
Event Type	Event Time	Speed	Trip Distance	Stopped For	Driver	Location
21/09/2014						
Health Check	3:12 AM	-	37.5 km		Unknown Driver	[New WA Office], 28 Watheroo Court, Ballajura WA 6066, Australia
Vehicle: Matt McKenzie CJL13S		Group: Sales				
Event Type	Event Time	Speed	Trip Distance	Stopped For	Driver	Location
21/09/2014						
Health Check	5:53 AM	-	-		Matt McKenzie	86 Centennial Road, Bowral NSW2576, Australia

After hours trip report ~ after hours driving e.g. between 20:00 and 5:00


Sample report not provided.

Appendix F Standard Report pack from Contractors using MT Data

F.1. Detailed Event Report ~ all events / exception breaches for the period

		IVMS Report For Fleet - Detailed	
Report Parameters		Print Date : 19/09/2014 16:16	
From : 19/09/2014 00:00			
To : 19/09/2014 23:59			
Time Zone : Canberra, Melbourne, Sydney (+10)			
Fleet : ABC123			
StartDate : 19/09/2014 0:00			
EndDate : 19/09/2014 23:59			
Provider : Origin			
Vehicle	Driver	Date	Breach Type
			Duration
			Max Speed
			Distance
			Location
			Way point

F.2. Monthly Trip Report ~ all drivers, by site with total kilometres driven

		IVMS Report For Fleet															
Report Parameters										Print Date : 19/09/2014 16:16							
From : 19/09/2014 00:00																	
To : 19/09/2014 23:59																	
Time Zone : Canberra, Melbourne, Sydney (+10)																	
Fleet : ABC123																	
StartDate : 19/09/2014 0:00																	
EndDate : 19/09/2014 23:59																	
Provider : Origin																	
General Data			Designated Speed			Fatigue		Seatbelts		Deceleration / Acceleration			Critical Events		Other		
Total km driven	No. of vehicles	No of drivers	>5kph over speed <=10kph	>10kph over speed <=15kph	>15kph over speed	Driving > 2:00 hrs without rest	Driving > 2:30 hrs without rest	Selt Belt - Warning	Selt Belt - LSR	Harsh Acceleration	Harsh Braking >12kmh/s	Excessive Harsh Braking	Panic Button Event	Rollover Event	Tamper	4WD > 80kph	No Go

F.3. Health Check / IVMS status report ~ health check of units and last download date

MTData		Unit Health Report																																	
Report Parameters																				Print Date : 19/09/2014 16:18															
From : 19/09/2014 00:00																																			
To : 19/09/2014 23:59																																			
Time Zone : Canberra, Melbourne, Sydney (+10)																																			
Fleet : ABC123																																			
Min No of Satellite : 6																																			
Max HDOP : 2																																			
Fleet	Vehicle	Make	Model	Overall	Report Period	Kms	Accuracy	Engine	Fuel	Fuel Economy	Battery	Oil	Coolant	Max	Brake	Max	Data	No of	% Time	% Reports	% Time	No of	Tracking Unit	Engine Mangement	Good GPS										
								Hours	Used	In Period	Derived	Min	Max	Avg	Volts	Temp	Pressure	Temp	RPM	Hits	Gear	Trailers	Sent	Rcvd	Reports	GPS Sync	With	GPS Flag	Live Reporting	Ignition Reports	Accident Reports	G-Force Reports	Software Ver	Software Ver	%

F.4. After hours trip report ~ after hours driving e.g. between 20:00 and 5:00

Out Of Hours Report										MTData	
Report Parameters										Print Date : 19/09/2014 16:19	
From : 19/09/2014 00:00											
To : 19/09/2014 23:59											
Time Zone : Canberra, Melbourne, Sydney (+10)											
Fleet : ABC123											
Fleet	Vehicle Name	Start Usage	End Usage	Duration(in sec)	Distance						

Appendix G Standard Report pack from Contractors using North point Fleet Management

G.1. Detailed Event Report ~ all events / exception breaches for the period

Exception Report											
Company Name											
Period: 25/08/2014 12:00:00 AM to 31/08/2014 11:59:59 PM											
Driver	Department	Location	Device	Exception Rule	Longitude	Latitude	Start Time	Duration (h:mm:ss)	Distance (km)	Details	Alert
Surname 1, First-Name 1	Company/Dept Name	Location	Vehicle Description / ID / Rego	Fatigue Management (2hrs 30min)	149.70129	-26.254721	28/08/2014 6:32:19 PM	2:35:51	193.6		
Surname 1, First-Name 1	Company/Dept Name	Location	Vehicle Description / ID / Rego	OE - Harsh Braking	150.47481	-26.868378	28/08/2014 9:49:02 PM	0:00:02	0.1	Acceleration forward or braking: -1.87 g	
Surname 1, First-Name 1 Total							2	2:35:53	193.7		
Grand Total							2	2:35:53	193.7		

G.2. Monthly Trip Report ~ all drivers, by site with total kilometres driven

Risk Management																					
Company Name																					
Period: 25/08/2014 12:00:00 AM to 31/08/2014 11:59:59 PM																					
Company Information			General Data			Designated Speed			Fatigue		Seatbelts		Acceleration / Deceleration			Critical Events		Other			
Driver	Department	Location	Total Km Driven	No. of Vehicles	No. of Drivers	>5 kph Overspeed <= 10kph	> 10 kph Overspeed <= 15kph	> 15 kph Overspeed	Driving > 2:00 hrs without rest	Driving > 2:30 hrs without rest	Seatbelt - Warning	Seatbelt - LSR	Harsh Acceleration > 12kmh/s	Harsh Braking > 12kmh/s	Excessive Harsh Braking > 18kmh/s HV >0.6g	Panic Button Event	Rollover Event	Tamper Event	4WD	NoGo	
Surname 1, First-Name 1	Company/Dept Name	Location 1	106	0	1	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	
Surname 2, First-Name 2	Company/Dept Name	Location 2	1,171	0	1	0	0	0	0	1	0	0	1	2	0	0	0	0	0	0	
Total	Company/Dept Name		1,277	0	2	0	0	0	1	1	0	0	1	3	0	0	0	1	0	0	

Released on 12/11/2014 - Revision 0 - Status Approved
 Process Owner is LNG Health and Safety Team Manager

Origin Energy Resources Limited: ABN 66 007 845 338
 Once printed, this is an uncontrolled document unless issued
 and stamped Controlled Copy or issued under a transmittal.

Template: LNG Procedure Development Lead_Revision 0_19/05/2014_OEUP-Q1000-TMP-BUS-005

G.3. Health Check / IVMS status report ~ health check of units and last download date

Device Health													
CompanyName	Company Name												
RunDate	18/09/2014 8:42:20 AM												
DistanceUnit	km												
Device	Dept	Location	Odometer	Active	Rego	Download Status	Days	Description					
Vehicle Description / ID / Rego	Company/Dept Name		50,000	TRUE	Rego	Device is not downloading data	15	The device has not sent data within the configured download interval. Adjust the 'days to download' value for this device if no data is expected from this device in the last 15 day(s).					

G.4. After hours trip report ~ after hours driving e.g. between 20:00 and 5:00

Business vs Personal Use Estimate Report													
Trips Detail Report													
Company Name	Company Name											Estimated Total	
Created on	24/09/2014											Personal Use	23.0
From	21/09/2014											Business Use	20.3
To	27/09/2014												
Distance Unit	km												
Device	Device Group	Depart Date	Depart Time	Arrival Time	Driving Duration	Work Hours Distance	After Hours Distance	Total Distance	To Home	Location	Stop Zone Types	Estimated Personal Distance	Estimated Business Distance
Vehicle Description / ID / Rego	Dept Name	September 24, 2014	6:47:28 AM	7:09:07 AM	0:21	0	23	23	TRUE	Road, Town, State PC		23	0
Vehicle Description / ID / Rego	Dept Name	September 24, 2014	7:09:17 AM	7:17:27 AM	0:08	4	0	4	FALSE	Road, Town, State PC		0	4
Vehicle Description / ID / Rego	Dept Name	September 24, 2014	7:17:47 AM	7:20:10 AM	0:02	1	0	1	FALSE	Road, Town, State PC		0	1
Vehicle Description / ID / Rego	Dept Name	September 24, 2014	7:24:10 AM	7:37:37 AM	0:13	15	0	15	FALSE	Road, Town, State PC		0	15

Appendix H Standard Report pack from Contractors using Digicore

H.1. Detailed Event Report ~ all events / exception breaches for the period

origin		Vehicle Exception Report						DIGICORE AUSTRALIA	
XXXXXXXXXXXXXXXXXXXXXXXXXXXX									
2014-09-08 00:00:00 - 2014-09-14 23:59:59									
Report parameters:			Timezone: XXXXXXXXXXXXXXXXXXXXXXXX						
Vehicle	Location	Latitude	Longitude	Exception Rule	Start Time	End Time	Driver	Detail	
XXXXXXXXXX		-25.9155	149.0373	Driving >2hrs without rest	9/9/2014 14:11:59	9/9/2014 16:40:31		for 2h 28m 32s	
		-25.9151	149.0373	Driving >2hrs without rest	9/9/2014 16:52:27	9/9/2014 20:26:52		for 4h 34m 25s	
		2							
XXXXXXXXXX		-26.6402	150.2259	Driving >2hrs without rest	9/9/2014 7:26:48	9/9/2014 9:38:32		for 2h 11m 44s	
		-26.6404	150.2261	Driving >2hrs without rest	10/9/2014 6:16:31	10/9/2014 8:33:23		for 2h 16m 52s	
		-26.8787	150.3466	40kph Zone Violation	13/9/2014 11:05:40	13/9/2014 11:06:00		46kph for 20s	
		-26.6367	150.2226	Driving >2hrs without rest	14/9/2014 6:26:55	14/9/2014 9:33:23		for 3h 6m 28s	
		-26.9409	150.2144	40kph Zone Violation	14/9/2014 9:11:50	14/9/2014 9:12:20		46kph for 30s	
		-26.9327	150.2075	40kph Zone Violation	14/9/2014 10:44:30	14/9/2014 10:45:05		46kph for 35s	
		-26.6363	150.2228	Driving >2hrs without rest	14/9/2014 13:17:55	14/9/2014 15:35:25		for 2h 17m 30s	
		7							
XXXXXXXXXX		-26.8656	150.2241	Driving >2hrs without rest	10/9/2014 3:57:59	10/9/2014 6:10:15		for 2h 12m 16s	
		1							
XXXXXXXXXX		-26.9327	150.2077	40kph Zone Violation	13/9/2014 11:23:35	13/9/2014 11:24:05		52kph for 30s	
		-26.9513	150.2268	40kph Zone Violation	14/9/2014 0:04:20	14/9/2014 0:05:15		61kph for 55s	
		-26.9502	150.2157	40kph Zone Violation	14/9/2014 0:05:45	14/9/2014 0:05:50		53kph for 5s	

H.2. Monthly Trip Report ~ all drivers, by site with total kilometres driven

DIGICORE AUSTRALIA

Percentage Vehicle Utilisation

Reporting Group:xxxxxxxxxxxxxxxxxxxxxxxxxxxx
 Period: 10/09/2014 00:00:00 | 16/09/2014 23:59:59
 Timezone: Australia/Brisbane

Total Trips Duration - total amount of time a vehicle was being used in a given day. Values in this report are given in hours:minutes:seconds format
 Utilisation % - percentage of time a vehicle was being used in a given day, i.e. "Total Trips Duration"/ 24 hrs.*100%
 Please note that vehicles that were not used during the reporting period are not included in Utilisation(%) and Trips Duration sections, but they are included in the Utilisation Chart with a zero utilisation.

	Utilisation(KM Travelled)							Average
	10/9	11/9	12/9	13/9	14/9	15/9	16/9	
TOTAL	527	535	213	621	324	317	473	430
xxxxxxxxxxxxxxxxxxxx	0	0	0	0	14	0	0	2
xxxxxxxxxxxxxxxxxxxx	3	0	0	0	0	0	0	0.43
xxxxxxxxxxxxxxxxxxxx	9	34	31	59	0	4	27	23.43
xxxxxxxxxxxxxxxxxxxx	1	261	7	186	122	144	137	122.57
xxxxxxxxxxxxxxxxxxxx	3	7	0	0	0	0	0	1.43
xxxxxxxxxxxxxxxxxxxx	355	67	96	101	138	122	62	134.43
xxxxxxxxxxxxxxxxxxxx	156	166	79	275	50	47	247	145.71

H.3. Health Check / IVMS status report ~ health check of units and last download date


Sample report not provided.

H.4. After hours trip report ~ after hours driving e.g. between 20:00 and 5:00


Sample report not provided.

Appendix I Standard Report pack from Contractors using GPS Innovations

I.1. Detailed Event Report ~ all events / exception breaches for the period

Driver IVMS Event Report - Origin Energy Profile							 smarter fleet solutions			
Company Name Pty Ltd				01 September, 2014 - 24 September, 2014						
Surname First Name				Over Max Speed	2	Acceleration Events	2	Zone Over Speed	0	TOTAL 5
BNE SE Group				Over RPM	0	Braking Events	1	Cornering Events	0	
				Excessive Drive Time	0	Seatbelt Events	0			
Driver	Group	Vehicle	Rego	Date	Time	Event Type	Event Detail	Location	MAP	
Name Surname	BNE SE Group	MMC-HiLux02	ABC 123	Friday, 12 September 2014	08:50 AM	Hard Brake	Hard Brake -0.358g. Max -0.358g	33584 Warrego Highway Drillham 4424 QLD	LAT / LONG	
Name Surname	BNE SE Group	MMC-HiLux02	ABC 124	Sunday, 14 September 2014	06:33 AM	Over Max Speed	Reached 112km/h. Time 00:00:19	33584 Warrego Highway Drillham 4424 QLD	LAT / LONG	
Name Surname	BNE SE Group	MMC-HiLux02	ABC 125	Sunday, 14 September 2014	05:05 PM	Extended Drive Time	Total Extended Drive Time 02:10:04	(0.8km SSW) 121 Old Warrego Highway Dalby 4405 QLD	LAT / LONG	
Name Surname	BNE SE Group	MMC-HiLux02	ABC 127	Wednesday, 17 September 2014	03:17 PM	Over Max Speed	Reached 122km/h. Time 00:00:07	Warrego Highway Macalister 4406 QLD	LAT / LONG	
Surname First Name				Over Max Speed	2	Acceleration Events	0	Zone Over Speed	3	TOTAL 8
QLD FNQ Group				Over RPM	1	Braking Events	1	Cornering Events	1	
				Excessive Drive Time	0	Seatbelt Events	0			
Driver	Group	Vehicle	Rego	Date	Time	Event Type	Event Detail	Location	MAP	
Name Surname	QLD FNQ Group	MMC-Dore 05	ABC 123	Wednesday, 10 September 2014	08:50 AM	City Over Speed ZONE	Reached 41km/h. Time 00:7:26. Zone Limit 40km/h	360 Adelaide Street Brisbane CBD 4000 QLD	LAT / LONG	
Name Surname	QLD FNQ Group	MMC-Dore 07	ABC 125	Saturday, 13 September 2014	10:02 AM	Hard Corner	Hard Right Corner 0.079g. Max 0.089g	135 Jesmond Road Indooroopilly 4068 QLD	LAT / LONG	
Name Surname	QLD FNQ Group	MMC-Dore 08	ABC 126	Sunday, 14 September 2014	06:33 AM	Over Max Speed	Reached 112km/h. Time 00:00:19	33584 Warrego Highway Drillham 4424 QLD	LAT / LONG	
Name Surname	QLD FNQ Group	MMC-Dore 12	ABC 130	Tuesday, 23 September 2014	08:58 PM	Extreme Brake	Extreme Brake -0.710g. Max -0.710g	Forest Hill-Fernvale Road Mount Tarampa 4311 QLD	LAT / LONG	

I.2. Monthly Trip Report ~ all drivers, by site with total kilometres driven

IVMS Driver Event Report Summary - Origin Energy Profile																			 smarter fleet solutions	
Company Name Pty Ltd				01-April-2013		- 01-May-2013														
General Information					Max Speed	ZONE Designated Speed			Fatigue		Seatbelts		Acceleration / Deceleration			Critical		Other		Total
Driver Name	Registration	Driver Group	Profile Type	Kms driven	Times Over Max Speed	>5kph overspeed <10kph	>10kph overspeed <15kph	<15kph overspeed	Driving >2.00 hrs without a rest	Driving >2.30 hrs without rest	Seatbelt - Warning	Seatbelt - LSR	Harsh Acceleration > .34g or >12 km/h/s	Harsh Braking > .34g or >12 km/h/s	Extreme Braking > .51g or >18 km/h/s	Panic Button Event	Rollover Event	Tamper Event	4WD >80 km/hr	Total
Driver Name S	123ABC	Brisbane Drivers	OE - LV	13,542	12	1	0	0	1	0	0	0	0	21	2	0	0	0	0	37
Driver Name L	123ABC	Roma Drivers	OE - LV	5,548	14	4	0	0	0	0	0	0	0	9	2	0	0	0	0	29
Driver Name P	123ABC	Roma Drivers	OE - LV	3,265	8	4	0	0	0	0	0	0	0	15	2	0	0	0	0	29
Driver Name D	123ABC	Dalby Drivers	OE - LV	2,256	1	0	0	0	0	2	2	0	2	18	2	0	0	0	0	27
Driver Name F	123ABC	Dalby Drivers	OE - LV	568	5	0	0	0	0	2	4	0	2	12	2	0	0	0	0	27
Driver Name C	123ABC	Dalby Drivers	OE - LV	2,658	8	0	0	0	0	2	5	0	2	5	2	0	0	0	0	24
Driver Name E	123ABC	Dalby Drivers	OE - LV	1,245	1	0	0	0	0	2	5	0	6	8	2	0	0	0	0	24
Driver Name B	123ABC	Dalby Drivers	OE - LV	2,236	1	0	0	0	0	2	8	0	2	8	2	0	0	0	0	23
Driver Name I	123ABC	Brisbane Drivers	OE - LV	8,995	5	5	1	0	2	0	1	0	1	5	2	0	0	0	0	22
Driver Name G	123ABC	Brisbane Drivers	OE - LV	6,584	1	5	1	0	2	0	1	0	7	2	2	0	0	0	0	21
Driver Name H	123ABC	Brisbane Drivers	OE - LV	8,596	0	5	1	0	2	0	1	0	1	7	2	0	0	0	1	20
Totals	11			55,493	56	24	3	0	7	10	27	0	23	110	22	0	0	0	1	283

I.3. Health Check / IVMS status report ~ health check of units and last download date








Device Health Check							
Company Name Pty Ltd				23 September 2014			
				ACTIVE DEVICES		18	
				POSSIBLE ISSUES DETECTED		3	
Severity	Fault Description	Device Version	Rego	Vehicle Description	Vehicle Make & Model	Year	Last Update
	<i>Device unplugged or power removed</i>	H1.6V1.6.20	345 SRV	345 SRV Prado	Toyota Prado	2012	More than 6h ago.
	<i>No activity in the last 72 hours</i>	H1.6V1.6.20	327 THX	327 THX Colorado	Holden Colorado	2011	More than 7d ago.
	<i>No activity in the last 72 hours</i>	H1.6V1.6.18	299 SGD	299 SGD Prado	Toyota Prado	2012	More than 13d ago.
	<i>No Issues Found</i>	H1.6V1.6.20	302 SHJ	Ex-302 SHJ	Holden Colorado	2013	45s ago.
	<i>No Issues Found</i>	H1.6V1.6.15	729 TTJ	Ex-729 TTJ	Toyota HiLux	2013	More than 2h ago.

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I.4. After hours trip report ~ after hours driving e.g. between 20:00 and 5:00

Driver After Hours Report							
Company Name Pty Ltd				15 September, 2014 - 25 September, 2014			
Surname First Name				Driving Between	Total Driving Time	Total Distance	NIGHT TRAVEL 25%
Reporting group				8:00PM - 5:00PM Monday - Friday	09:56:18 HH:MM:SS	272.8 KILOMETRES	
Vehicle Rego	Start Time	Start Address	Finish Address	Finish Time	Driving Time	Idle Time	Travelled KM
Monday, 15 September, 2014				Total	00:51:32	00:00:00	30.00
ABC 123	8:09 PM	17 Curfew Street Upper Mount Gravatt 4122 QLD	13 Kyabra Street Newstead 4006 QLD	8:42 PM	00:33:00	00:00:00	14.00
Vehicle Rego	Start Time	Start Address	Finish Address	Finish Time	Driving Time	Idle Time	Travelled KM
Tuesday, 16 September, 2014				Total	02:46:49	01:14:57	57.22
ABC 123	9:37 PM	9 Pittwin Road Capalaba 4157 QLD	12 Shakespeare Street Coorparoo 4151 QLD	9:54 PM	00:17:24	00:00:00	14.63
ABC 123	9:56 PM	12 Shakespeare Street Coorparoo 4151 QLD	69 Doggett Street Newstead 4006 QLD	10:13 PM	00:17:24	00:00:00	7.40
ABC 123	10:16 AM	69 Doggett Street Newstead 4006 QLD	71 Doggett Street Newstead 4006 QLD	10:18 AM	00:01:12	00:00:00	0.18
ABC 123	4:59 AM	71 Doggett Street Newstead 4006 QLD	70 Doggett Street Newstead 4006 QLD	5:02 AM	00:02:24	00:00:00	0.03
Vehicle Rego	Start Time	Start Address	Finish Address	Finish Time	Driving Time	Idle Time	Travelled KM
Wednesday, 17 September, 2014				Total	01:54:36	00:00:00	57.84
ABC 123	8:14 PM	19 Curfew Street Upper Mount Gravatt 4122 QLD	15 Kyabra Street Newstead 4006 QLD	8:48 PM	00:33:36	00:00:00	13.81
ABC 123	4:17 AM	15 Kyabra Street Newstead 4006 QLD	119 Redland Bay Road Capalaba 4157 QLD	5:05 AM	00:48:00	00:00:00	23.84
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Appendix J IVMS Providers contact details

IVMS Supplier	Name	Contact Details
	Donovan Bredenhann www.mixtelematics.ae	07 3234 3500 (GMT+10) Donovan.bredenhann@mixtelematics.com
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	Jason Rigby www.mtdata.com.au	07 3040 8850 jrigby@mtdata.com.au
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