

#### DRIVING SAFETY and DRIVING QUALITY MONITORING, BEHAVIOR MONITORING

Monitor fleet safety initiatives.

Fleet safety is about reducing risk and reinforcing safe driving behaviour.

With the potential threat of fatalities and injuries, and the related costs of accidents – safety initiatives have become a critical concern for any fleet manager or transportation company.

GuardMagic fleet management solution provides managers with real-time visibility into driver activity and behaviour.

Driving Safety and Driving Style reporting feature, you can now capture over speeding, hard braking, quick starts and hard cornering for each your vehicle and each your driver.

Driving Style allows you to measure, manage, and reduce aggressive driving either by vehicle or by a specific driver.

Driving Style analytics allows you to rate (and penalty points) of all your drivers.

GuardMagic monitoring software (VehicleStation, FleetStation and SmartTracer) represents in very comfortable way in table and diagrams information about driving style of every your driver with its counting driving points (over speeding, harsh breaking, quick start.

Generated driver tables and graph shown in details driving style of every driver for every trip.

Summary "driver style" table allows you rate the safety and quality of your driver for selected time interval.

#### 1. Drivers rates by penalty points per selected time interval

Drivers Common Report per Month												
TimePeriod:		01.09.2014 00:00 - 01.10.2014 00:00										
Driver	Work Time hour:min	Overspeed Driving %	Mileage km	Speed		Acceleration			Deceleration			Total Points
				Max km/h	Avg km/h	Max m/s <sup>2</sup>	Avg m/s <sup>2</sup>	count per 100 km	Max m/s <sup>2</sup>	Avg m/s <sup>2</sup>	count per 100 km	
Ken Kenny	46:29	6	2880.2	116.0	71.3	2.15	0.25	0.69	2.90	0.25	6.46	30.1
Ron1 Ron1	23:53	0	967.5	104.5	52.9	1.85	0.30	2.07	2.85	0.35	13.02	24.5
Brunei 4 FES	2:33	0	93.3	95.5	40.5	1.65	0.20	1.07	2.50	0.25	7.50	17.4
RON 2 FES	0:00	0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Ivanov Alexey	0:00	0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0

## 2. Driver trip overview per selected time interval

Kenny Ken Trips Overview										
Report TimePeriod:	01 Sep 2014 00:00 – 30 Sep 2014 23:59									
Report Created:	16 Oct 2014 15:49									
Total Trips:	98									

Wed, 17 Sep 2014

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Vehicle	Time	Durations	Distance	Speed km/h		Acceleration m/s <sup>2</sup>		Deceleration m/s <sup>2</sup>	
				Maximum	Average	Maximum	Average	Maximum	Average
Toyota Hilux (BAM6076)	08:09:26 - 09:01:28	00:52:02	73.03	110.50	0.70	1.50	0.37	2.60	0.38
Toyota Hilux (BAM6076)	11:38:48 - 11:50:24	00:11:36	3.07	71.00	1.00	1.15	0.33	1.65	0.48
Toyota Hilux (BAM6076)	12:33:19 - 12:43:04	00:09:45	3.13	71.00	0.71	0.85	0.22	1.35	0.30
Toyota Hilux (BAM6076)	13:54:06 - 13:56:08	00:02:02	0.11	17.50	0.69	0.25	0.17	0.30	0.23
Toyota Hilux (BAM6076)	14:11:53 - 14:22:20	00:10:27	3.86	61.00	0.89	1.00	0.12	1.45	0.19
Toyota Hilux (BAM6076)	16:35:54 - 18:14:09	01:38:15	122.97	114.00	0.95	1.40	0.34	2.10	0.82
<b>Total Trips: 6</b>		<b>03:04:07</b>	<b>206.27</b>	<b>114.00</b>	<b>0.79</b>	<b>1.50</b>	<b>0.26</b>	<b>2.60</b>	<b>0.40</b>

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Vehicle	Time	Durations	Distance	Speed km/h		Acceleration m/s <sup>2</sup>		Deceleration m/s <sup>2</sup>	
				Maximum	Average	Maximum	Average	Maximum	Average
Toyota Hilux (BAM6076)	07:26:14 - 07:38:34	00:10:20	4.82	66.50	1.19	1.40	0.34	1.70	0.48
Toyota Hilux (BAM6076)	08:48:28 - 10:27:48	01:39:20	128.39	112.00	0.81	1.50	0.28	1.90	0.66
Toyota Hilux (BAM6076)	11:53:38 - 12:02:28	00:08:50	1.70	46.50	0.61	0.55	0.29	1.10	0.45
Toyota Hilux (BAM6076)	12:21:51 - 12:32:19	00:10:28	2.07	38.50	0.58	0.45	0.11	0.85	0.27
Toyota Hilux (BAM6076)	17:13:55 - 17:29:58	00:16:03	19.33	106.00	1.16	1.55	0.25	1.45	0.71
Toyota Hilux (BAM6076)	17:38:17 - 18:15:11	00:36:54	45.59	111.50	1.01	1.45	0.69	2.20	0.80
<b>Total Trips: 6</b>		<b>03:01:55</b>	<b>201.90</b>	<b>112.00</b>	<b>0.89</b>	<b>1.55</b>	<b>0.33</b>	<b>2.20</b>	<b>0.56</b>

## 3. Vehicle trip overview per selected time interval

Toyota Hilux Trips Overview										
Report TimePeriod:	01 Sep 2014 00:00 – 30 Sep 2014 23:59									
Report Created:	16 Oct 2014 15:51									
Total Trips:	311									

Mon, 01 Sep 2014

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Driver	Time	Durations	Distance	Speed km/h		Acceleration m/s <sup>2</sup>		Deceleration m/s <sup>2</sup>	
				Maximum	Average	Maximum	Average	Maximum	Average
Ron1 Ron1	08:09:49 - 08:19:17	00:09:28	3.51	62.00	0.51	1.15	0.27	1.55	0.35
	08:40:54 - 08:43:23	00:02:29	0.60	45.50	0.53	1.50	0.39	1.20	0.28
	10:11:37 - 10:13:11	00:01:34	0.10	24.00	0.64	0.40	0.38	0.45	0.33
	10:33:39 - 11:03:35	00:29:56	1.25	39.50	0.62	0.90	0.31	1.40	0.48
	14:10:33 - 15:10:45	01:00:12	31.97	99.50	0.57	1.55	0.31	1.90	0.27
Ron1 Ron1	17:14:10 - 17:32:36	00:18:26	2.83	58.50	1.67	1.30	0.43	2.10	0.56
<b>Total Trips: 6</b>		<b>02:02:05</b>	<b>40.28</b>	<b>99.50</b>	<b>0.75</b>	<b>1.55</b>	<b>0.35</b>	<b>2.10</b>	<b>0.38</b>

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Driver	Time	Durations	Distance	Speed km/h		Acceleration m/s <sup>2</sup>		Deceleration m/s <sup>2</sup>	
				Maximum	Average	Maximum	Average	Maximum	Average
	07:09:16 - 07:27:10	00:17:54	9.03	83.00	0.57	1.10	0.41	1.60	0.23
Ron1 Ron1	08:22:13 - 08:44:36	00:22:23	12.05	78.50	0.70	1.10	0.50	1.95	0.29
	10:22:11 - 10:25:08	00:02:57	0.64	35.50	0.51	0.70	0.26	0.45	0.16
Ron1 Ron1	11:35:40 - 11:39:12	00:03:32	0.64	40.50	0.47	1.20	0.74	1.20	0.32
Ron1 Ron1	15:10:41 - 15:13:08	00:02:27	0.68	44.00	0.59	1.35	0.20	1.00	0.31
Ron1 Ron1	15:32:28 - 15:35:56	00:03:28	0.61	39.50	0.78	1.30	0.49	1.15	0.47
Ron1 Ron1	17:37:19 - 17:44:37	00:07:18	2.87	51.50	0.82	1.10	0.36	1.60	0.82
Ron1 Ron1	19:36:20 - 19:40:05	00:03:45	1.02	40.00	0.56	1.00	0.15	0.95	0.25
	19:47:45 - 19:50:38	00:02:53	1.03	56.50	0.94	1.35	0.39	1.05	0.35
<b>Total Trips: 9</b>		<b>01:06:37</b>	<b>28.56</b>	<b>83.00</b>	<b>0.66</b>	<b>1.35</b>	<b>0.39</b>	<b>1.95</b>	<b>0.36</b>

#### 4. Vehicle speed violations per selected time interval

Toyota Hilux Speed Violations Overview							
Report TimePeriod:		01 Sep 2014 00:00 – 30 Sep 2014 23:59					
Report Created:		16 Oct 2014 15:51					
Total Violations:		93					
<b>Toyota Hilux</b>							<a href="#">back to top</a>
Driver	Date	Durations	Speed km/h			Location	
			Treshhold	Maximum	Average		
Kenny Ken	Tue, 16 Sep 2014, 16:42:26	00:01:00	10	110	109	4.967330; 114.864708	
Kenny Ken	Tue, 16 Sep 2014, 16:45:11	00:00:40	10	110	110	4.983040; 114.902664	
Kenny Ken	Tue, 16 Sep 2014, 16:51:16	00:00:35	2	102	102	4.990260; 114.970078	
Kenny Ken	Tue, 16 Sep 2014, 16:53:41	00:00:40	2	102	102	5.008890; 114.998962	
Kenny Ken	Tue, 16 Sep 2014, 16:54:56	00:00:40	4	104	103	5.024330; 115.010825	
Kenny Ken	Wed, 17 Sep 2014, 00:58:34	00:00:40	14	114	114	4.988310; 114.920853	
Kenny Ken	Wed, 17 Sep 2014, 16:57:08	00:00:40	6	106	106	4.580330; 114.244324	
Kenny Ken	Wed, 17 Sep 2014, 17:52:48	00:00:45	7	107	107	4.832380; 114.751640	
Kenny Ken	Wed, 17 Sep 2014, 17:53:58	00:00:55	2	102	102	4.836200; 114.768616	
Kenny Ken	Wed, 17 Sep 2014, 17:56:38	00:00:35	4	104	103	4.870510; 114.788010	
Kenny Ken	Wed, 17 Sep 2014, 17:59:33	00:00:45	6	106	105	4.909860; 114.801628	
Kenny Ken	Wed, 17 Sep 2014, 18:04:53	00:01:00	12	112	112	4.962180; 114.853882	
Kenny Ken	Wed, 17 Sep 2014, 18:07:43	00:00:35	6	106	106	4.979660; 114.891792	
Kenny Ken	Wed, 17 Sep 2014, 18:19:03	00:00:36	4	104	104	5.033840; 115.029282	
	Thu, 18 Sep 2014, 00:50:57	00:00:31	11	111	110	4.982220; 114.900070	
	Thu, 18 Sep 2014, 01:06:18	00:00:40	3	103	103	4.834990; 114.766037	
	Thu, 18 Sep 2014, 01:07:48	00:00:45	4	104	104	4.832210; 114.744568	
Kenny Ken	Thu, 18 Sep 2014, 01:57:02	00:01:50	6	106	106	4.626770; 114.418739	
Kenny Ken	Thu, 18 Sep 2014, 02:02:17	00:00:40	2	102	102	4.600160; 114.345801	
Kenny Ken	Thu, 18 Sep 2014, 17:32:57	00:00:35	8	108	108	4.618540; 114.403709	
Kenny Ken	Thu, 18 Sep 2014, 18:14:42	00:00:50	4	104	104	4.848690; 114.778999	

#### 5. Vehicle acceleration / deceleration violations per selected time interval

Toyota Hilux Acceleration/Deceleration Violations Overview					
Report TimePeriod:		01 Sep 2014 00:00 – 30 Sep 2014 23:59			
Report Created:		16 Oct 2014 15:51			
Total Violations:		444			
<b>Toyota Hilux</b>					<a href="#">back to top</a>
Driver	Date	Acceleration m/s <sup>2</sup>	Deceleration m/s <sup>2</sup>	Location	
Ron1 Ron1	Sun, 31 Aug 2014, 16:16:39		1.55	4.577730; 114.204803	
	Sun, 31 Aug 2014, 22:12:08	1.55		4.571930; 114.202667	
	Sun, 31 Aug 2014, 22:36:03		1.70	4.597680; 114.276459	
	Sun, 31 Aug 2014, 22:43:13		1.65	4.617760; 114.324951	
	Sun, 31 Aug 2014, 23:02:13		1.65	4.591250; 114.257507	
	Sun, 31 Aug 2014, 23:03:08		1.90	4.588630; 114.249687	
	Sun, 31 Aug 2014, 23:06:08		1.75	4.579910; 114.220306	
	Sun, 31 Aug 2014, 23:07:03		1.75	4.579020; 114.212837	
Ron1 Ron1	Mon, 01 Sep 2014, 01:14:50		2.10	4.573000; 114.206963	
	Mon, 01 Sep 2014, 15:14:17		1.60	4.595520; 114.247986	
Ron1 Ron1	Mon, 01 Sep 2014, 16:38:43		1.95	4.590890; 114.218185	
Ron1 Ron1	Mon, 01 Sep 2014, 16:41:43		1.55	4.578390; 114.208809	
Ron1 Ron1	Tue, 02 Sep 2014, 01:44:14		1.60	4.587360; 114.216019	
	Tue, 02 Sep 2014, 15:31:49		1.55	4.579210; 114.212051	
	Tue, 02 Sep 2014, 15:36:49		1.55	4.577740; 114.204887	
	Tue, 02 Sep 2014, 15:37:14		1.65	4.577290; 114.202118	
	Tue, 02 Sep 2014, 15:39:09		1.80	4.570790; 114.202843	
Ron1 Ron1	Wed, 03 Sep 2014, 01:37:25		1.70	4.579120; 114.211914	
Ron1 Ron1	Wed, 03 Sep 2014, 15:13:18		1.75	4.590690; 114.218140	
Ron1 Ron1	Wed, 03 Sep 2014, 15:29:13	1.60		4.601480; 114.285767	
Ron1 Ron1	Wed, 03 Sep 2014, 15:29:29		2.55	4.603690; 114.285019	
Ron1 Ron1	Wed, 03 Sep 2014, 16:27:56		2.20	4.591440; 114.221710	
Ron1 Ron1	Wed, 03 Sep 2014, 17:04:02		1.60	4.572270; 114.202637	

## 6. Fleet acceleration (quick start)/ deceleration (hard braking) violations per selected time interval

### Fleet Acceleration/Deceleration Violations Overview

Report TimePeriod: 01 Sep 2014 00:00 – 30 Sep 2014 23:59

Report Created: 16 Oct 2014 15:50

Total Violations: 465

#### Toyota Hilux

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Driver	Date	Acceleration m/s <sup>2</sup>	Deceleration m/s <sup>2</sup>	Location
Ron1 Ron1	Sun, 31 Aug 2014, 16:16:39		1.55	<a href="#">4.577730; 114.204803</a>
	Sun, 31 Aug 2014, 22:12:08	1.55		<a href="#">4.571930; 114.202667</a>
	Sun, 31 Aug 2014, 22:36:03		1.70	<a href="#">4.597680; 114.276459</a>
	Sun, 31 Aug 2014, 22:43:13		1.65	<a href="#">4.617760; 114.324951</a>
	Sun, 31 Aug 2014, 23:02:13		1.65	<a href="#">4.591250; 114.257507</a>
	Sun, 31 Aug 2014, 23:03:08		1.90	<a href="#">4.588630; 114.249687</a>
	Sun, 31 Aug 2014, 23:06:08		1.75	<a href="#">4.579910; 114.220306</a>
	Sun, 31 Aug 2014, 23:07:03		1.75	<a href="#">4.579020; 114.212837</a>
Ron1 Ron1	Mon, 01 Sep 2014, 01:14:50		2.10	<a href="#">4.573000; 114.206963</a>
	Mon, 01 Sep 2014, 15:14:17		1.60	<a href="#">4.595520; 114.247986</a>
Ron1 Ron1	Mon, 01 Sep 2014, 16:38:43		1.95	<a href="#">4.590890; 114.218185</a>
Ron1 Ron1	Mon, 01 Sep 2014, 16:41:43		1.55	<a href="#">4.578390; 114.208809</a>
Ron1 Ron1	Tue, 02 Sep 2014, 01:44:14		1.60	<a href="#">4.587360; 114.216019</a>
	Tue, 02 Sep 2014, 15:31:49		1.55	<a href="#">4.579210; 114.212051</a>
	Tue, 02 Sep 2014, 15:36:49		1.55	<a href="#">4.577740; 114.204887</a>
	Tue, 02 Sep 2014, 15:37:14		1.65	<a href="#">4.577290; 114.202118</a>
	Tue, 02 Sep 2014, 15:39:09		1.80	<a href="#">4.570790; 114.202843</a>
Ron1 Ron1	Wed, 03 Sep 2014, 01:37:25		1.70	<a href="#">4.579120; 114.211914</a>
Ron1 Ron1	Wed, 03 Sep 2014, 15:13:18		1.75	<a href="#">4.590690; 114.218140</a>
Ron1 Ron1	Wed, 03 Sep 2014, 15:29:13	1.60		<a href="#">4.601480; 114.285767</a>
Ron1 Ron1	Wed, 03 Sep 2014, 15:29:29		2.55	<a href="#">4.603690; 114.285019</a>
Ron1 Ron1	Wed, 03 Sep 2014, 16:27:56		2.20	<a href="#">4.591440; 114.221710</a>
Ron1 Ron1	Wed, 03 Sep 2014, 17:04:02		1.60	<a href="#">4.572270; 114.202637</a>

## 7. Fleet speed violations per selected time interval

### Fleet Speed Violations Overview

Report TimePeriod: 01 Sep 2014 00:00 – 30 Sep 2014 23:59

Report Created: 16 Oct 2014 15:50

Total Violations: 93

#### Toyota Hilux

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Driver	Date	Durations	Speed km/h			Location
			Threshold	Maximum	Average	
Kenny Ken	Tue, 16 Sep 2014, 16:42:26	00:01:00	10	110	109	<a href="#">4.967330; 114.864708</a>
Kenny Ken	Tue, 16 Sep 2014, 16:45:11	00:00:40	10	110	110	<a href="#">4.983040; 114.802664</a>
Kenny Ken	Tue, 16 Sep 2014, 16:51:16	00:00:35	2	102	102	<a href="#">4.990260; 114.970078</a>
Kenny Ken	Tue, 16 Sep 2014, 16:53:41	00:00:40	2	102	102	<a href="#">5.008890; 114.999962</a>
Kenny Ken	Tue, 16 Sep 2014, 16:54:56	00:00:40	4	104	103	<a href="#">5.024330; 115.010925</a>
Kenny Ken	Wed, 17 Sep 2014, 00:58:34	00:00:40	14	114	114	<a href="#">4.988310; 114.920853</a>
Kenny Ken	Wed, 17 Sep 2014, 16:57:08	00:00:40	6	106	106	<a href="#">4.580330; 114.244324</a>
Kenny Ken	Wed, 17 Sep 2014, 17:52:48	00:00:45	7	107	107	<a href="#">4.832380; 114.751640</a>
Kenny Ken	Wed, 17 Sep 2014, 17:53:58	00:00:55	2	102	102	<a href="#">4.838200; 114.768616</a>
Kenny Ken	Wed, 17 Sep 2014, 17:56:38	00:00:35	4	104	103	<a href="#">4.870610; 114.788010</a>
Kenny Ken	Wed, 17 Sep 2014, 17:59:33	00:00:45	6	106	105	<a href="#">4.909860; 114.801628</a>
Kenny Ken	Wed, 17 Sep 2014, 18:04:53	00:01:00	12	112	112	<a href="#">4.962180; 114.853882</a>
Kenny Ken	Wed, 17 Sep 2014, 18:07:43	00:00:35	6	106	106	<a href="#">4.979660; 114.891792</a>
Kenny Ken	Wed, 17 Sep 2014, 18:19:03	00:00:36	4	104	104	<a href="#">5.033840; 115.029282</a>
	Thu, 18 Sep 2014, 00:50:57	00:00:31	11	111	110	<a href="#">4.982220; 114.900070</a>
	Thu, 18 Sep 2014, 01:06:18	00:00:40	3	103	103	<a href="#">4.834890; 114.766037</a>
	Thu, 18 Sep 2014, 01:07:48	00:00:45	4	104	104	<a href="#">4.832210; 114.744568</a>
Kenny Ken	Thu, 18 Sep 2014, 01:57:02	00:01:50	6	106	106	<a href="#">4.626770; 114.418739</a>
Kenny Ken	Thu, 18 Sep 2014, 02:02:17	00:00:40	2	102	102	<a href="#">4.600180; 114.345901</a>
Kenny Ken	Thu, 18 Sep 2014, 17:32:57	00:00:35	8	108	108	<a href="#">4.618540; 114.403709</a>
Kenny Ken	Thu, 18 Sep 2014, 18:14:42	00:00:50	4	104	104	<a href="#">4.848690; 114.778999</a>