



AWIA Vehicle

Fleet monitoring system



AWIA Vehicle



Description of the system

System **AWIA Vehicle** is not only a monitoring device, but also a modern tool supporting fleet management. It is an optimal solution used to coordinate logistical activities and work control.

AWIA Vehicle characterizes itself with a modular construction, possible to extend at any time of its exploitation. Configuration of the system and a scope of available functions, depends on Client's requirements and individual needs.

System **AWIA Vehicle** consists of the following elements:

- ✓ **AWIA Locator LC** - a device installed on the vehicle, enables to distinguish vehicle's GPS location and its movement parameters – embedded GPS module enables data transmission from vehicle to the system,
- ✓ set of sensors,
- ✓ **AWIA Vehicle** Explorer application - allows a user an access to the system via website browser - application's role is to display and present measurement data from devices installed on the vehicle.



Functionality

- ✓ Tracking vehicle's position on the digital map in real time
- ✓ Full information about a status of a given vehicle's work
- ✓ Fuel consumption monitoring
- ✓ Driver's work time monitoring
- ✓ Identification of private/business drives
- ✓ Full history of routes and stops
- ✓ Function of „a black box“
- ✓ Generation of reports and graphs



Advantages

- ✓ 24/7 access to online information
- ✓ Protection against data loss
- ✓ Decreased vehicle's exploitation costs
- ✓ Increased effectiveness of work organization
- ✓ Supervision over the timeliness of technical and warranty inspections and mandatory insurance
- ✓ Possible to obtain additional insurance discounts



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Expandability

- ✓ Fuel probe – enables precise measurement of fuel quantity in the fuel tank
- ✓ AWIA Terminal – a device with a function of a sign terminal with a keyboard and LCD display, RFID card reader and peripheral devices driver
- ✓ AWIA Audio – voice transmission module; enables communication between a driver and system's user
- ✓ AWIA RFID – proximity card user; enables identification of the driver
- ✓ DALLAS chips reader- enables an alternative way of identifying the driver
- ✓ Printer – enables printing, e.g. orders sent to the driver
- ✓ CAN diagnostics - enables reading vehicle's work parameters form CAN bus
- ✓ Digital input/output module – enables system's extension on the vehicle with additional digital inputs/outputs
- ✓ Analogue input/output module – enables system's extension on the vehicle with additional analogue inputs/outputs
- ✓ Alarm remote control with a receiver - can be used by the user of the vehicle to e.g. signal the attack

System architecture



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An example view of the app - current localization

Lokalizacje		Raporty		Archiwum danych		Archiwum danych		Raporty		Wygeneruj				
Parametry										Czas		Wygeneruj		
Dedykowane		Raport tras (s...)		Wybrane poja...		00 2022-05-24 00:00		00 2022-05-24 13:28		BIEŻĄCY DZIEŃ		<input type="button" value="PODRZĄD"/> <input type="button" value="KLSX"/>		
Raport tras (samochody)														
LP.	CZAS ROZPOCZĘCIA	CZAS ZAKOŃCZENIA	CZAS TRWANIA	POJAZD	OSOBA	DEPOSOBY	DŁUGOŚĆ TRASY [KM]	PREDKOŚĆ MAKSYMALNA [KM/H]	PREDKOŚĆ ŚREDNIA [KM/H]	POCZĄTEK TRASY	KONIEC TRASY	DAX	NR DELEGACJI	ARCH.
1	2022-05-24 09:13	2022-05-24 09:19	00:05:11	Daewoo Lublin 35			2.14	53	23.41	Stalowa Wola, Han...	Stalowa Wola, Kom...			
2	2022-05-24 10:20	2022-05-24 10:27	00:06:35	Daewoo Lublin 35			1.91	55	16.81	Stalowa Wola, Kom...	Stalowa Wola, Han...			
3	2022-05-24 12:16	2022-05-24 12:21	00:04:35	Daewoo Lublin 35			2.93	52	25.71	Stalowa Wola, Han...	Stalowa Wola, Alej...			
4	2022-05-24 07:04	2022-05-24 07:27	00:03:26	Isuzu N19N RST11			0.22	17	3.27	Stalowa Wola, Han...	Stalowa Wola, Han...			
5	2022-05-24 08:15	2022-05-24 08:22	00:06:31	Isuzu N19N RST11			2.14	46	19.21	Stalowa Wola, Han...	Stalowa Wola, Kom...			
6	2022-05-24 09:12	2022-05-24 09:20	00:08:07	Isuzu N19N RST11			2.72	64	20.56	Stalowa Wola, Kom...	Stalowa Wola, Han...			
7	2022-05-24 10:23	2022-05-24 10:33	00:10:02	Isuzu N19N RST11			4.72	62	27.1	Stalowa Wola, Han...	Stalowa Wola, Han...			
8	2022-05-24 12:09	2022-05-24 12:21	00:12:01	Isuzu N19N RST11			2.35	37	13.75	Stalowa Wola, Han...	Stalowa Wola, Alej...			
9	2022-05-24 12:45	2022-05-24 12:50	00:04:50	Isuzu N19N RST11			1.75	52	20.93	Stalowa Wola, Alej...	Stalowa Wola, Niez...			
10	2022-05-24 08:06	2022-05-24 08:25	00:18:16	Iveco Daily 35C13			8.78	52	29.68	Stalowa Wola, Han...	gmina Nisko, Szkie...			
11	2022-05-24 07:35	2022-05-24 07:40	00:04:50	Melex RST28026			0.87	30	10.12	Stalowa Wola, Kom...	Stalowa Wola, Mar...			
12	2022-05-24 08:38	2022-05-24 08:42	00:04:08	Melex RST28026			1.32	31	18.7	Stalowa Wola, Kom...	Stalowa Wola, Hut...			
13	2022-05-24 09:15	2022-05-24 09:27	00:11:57	Melex RST28026			0.64	16	3.05	Stalowa Wola, Hut...	Stalowa Wola, Niez...			
14	2022-05-24 09:30	2022-05-24 09:41	00:10:55	Melex RST28026			0.4	11	2.2	Stalowa Wola, Niez...	Stalowa Wola, I. S...			
15	2022-05-24 09:44	2022-05-24 09:48	00:03:55	Melex RST28026			0.4	23	8.09	Stalowa Wola, I. S...	Stalowa Wola, I. S...			
16	2022-05-24 10:14	2022-05-24 10:21	00:06:57	Melex RST28026			1.7	30	14.99	Stalowa Wola, Rom...	Stalowa Wola, Kom...			
17	2022-05-24 11:29	2022-05-24 11:34	00:04:56	Melex RST28026			0.98	25	11.33	Stalowa Wola, Kom...	Stalowa Wola, I. S...			
18	2022-05-24 11:47	2022-05-24 11:50	00:03:21	Melex RST28026			0.59	23	9.26	Stalowa Wola, I. S...	Stalowa Wola, I. S...			
19	2022-05-24 11:53	2022-05-24 12:13	00:19:52	Melex RST28026			2.8	24	8	Stalowa Wola, I. S...	Stalowa Wola, Poni...			
20	2022-05-24 12:35	2022-05-24 13:05	00:39:55	Melex RST28026			6.12	31	10.8	Stalowa Wola, Poni...	Stalowa Wola, Hut...			
21	2022-05-24 08:14	2022-05-24 08:19	00:04:56	Melex RST28027			1.39	25	16.93	Stalowa Wola, Kom...	Stalowa Wola, Knie...			
22	2022-05-24 10:14	2022-05-24 10:21	00:07:00	Melex RST28027			1.2	24	10.88	Stalowa Wola, Knie...	Stalowa Wola, Kom...			
23	2022-05-24 08:50	2022-05-24 09:03	00:13:24	Peugeot Bipper RS...			5.25	54	22.46	Stalowa Wola, Niez...	Stalowa Wola, Han...			
24	2022-05-24 11:51	2022-05-24 11:56	00:04:25	Peugeot Bipper RS...			2.14	48	27.25	Stalowa Wola, Han...	Stalowa Wola, Knie...			
25	2022-05-24 12:28	2022-05-24 12:32	00:03:36	Peugeot Bipper RS...			1.71	59	27.99	Stalowa Wola, Gen...	Stalowa Wola, Han...			
26	2022-05-24 09:00	2022-05-24 09:09	00:08:22	Peugeot Bipper RS...			4.77	57	33.48	Stalowa Wola, Han...	Stalowa Wola, Ener...			
27	2022-05-24 09:44	2022-05-24 09:52	00:07:55	Peugeot Bipper RS...			4.82	67	35.71	Stalowa Wola, Ener...	Stalowa Wola, Gen...			
28	2022-05-24 10:02	2022-05-24 10:06	00:03:25	Peugeot Bipper RS...			0.31	17	5.42	Stalowa Wola, Gen...	Stalowa Wola, Gen...			
29	2022-05-24 10:51	2022-05-24 10:59	00:07:21	Peugeot Bipper RS...			2.88	67	22.91	Stalowa Wola, Han...	Stalowa Wola, Alej...			
30	2022-05-24 11:02	2022-05-24 11:12	00:09:19	Peugeot Bipper RS...			2.36	51	17.96	Stalowa Wola, Alej...	Stalowa Wola, Han...			
RAZEM:			CZAS TRWANIA: 0 DNI 6:52			ŁĄCZNA DŁUGOŚĆ TRASY: 123.56		MAKSYMALNA PREDKOŚĆ: 117	SREDNIA PREDKOŚĆ: 20.27					

Example view of the application - reports

