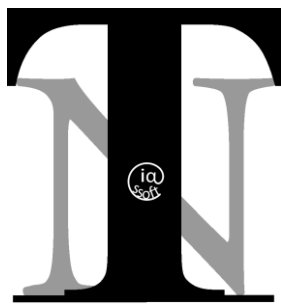




IASSOFT Ltd

Industrial Automation Systems and SOFTWARE



Truckman.Net

Short Description

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1. Software overview

Truckman.NET is a terminal automation system for monitoring, controlling and managing the truck loading process in oil terminals. **Truckman.NET** is an upgrade of the TruckManager software and is currently installed and operating at several oil terminals.

Truckman.NET consists of the following basic subsystems:

- Loading management system
- Isle automation system

and the following optional subsystems:

- Additives subsystem
- Interface to SAP
- Tank Gauging Software
- SCADA subsystem for monitoring and control of station pumps and valves.
- Terminal gate and truck weighing
- Deliveries and customs clearance
- Central monitoring and control

1.1 Loading management system

The Loading management system provides the following basic functionality for managing the truck loading process:

- Entry and management of loading orders
- Printing of loading orders
- Print out of bill of lading. The bill of lading is customizable according to user requirements
- Configuration of LCUs and system parameters
- Management of products and additives
- Management of truck driver database
- Management of companies database
- Management of trucks and compartments database
- Management of users and access levels

- Daily reports, balances and access to historical data
- Management of users

1.2 Isle Automation System

The Isle Automation System provides the basic functionality for automating and supervising the truck loading process. The Isle Automation System has the following characteristics:

- Supports loading isles of either bottom loading or top loading with LCUs such as Accuload II, Accuload III, Masterload II, Petrocount, ISOIL VEGA and Contrec.
- Controls truck driver access to loading Isles and entry of fuel quantities. An optional interface with Badge Reader Systems can be used for truck driver access.
- Provides a graphical overview (mimic diagram) of isles and trucks
- Provides an Emergency Shut Down (ESB) and LCU disable function
- Alarm logging and handling
- Event logging and printing
- Automated self checks of loading data consistency (constant cross check of totalizers and bills of lading)
- Detailed reports and statistics

1.3 Additives Subsystem

- Additive management
- Additive automation

1.4 Interface to SAP

- Import of loading orders from SAP
- Export of loading data to SAP

1.5 Tank gauging software

- Interface with tank gauging system hardware (e.g. ENRAF) for on-line monitoring and display of tank levels, temperatures, densities and water levels
- Calculated Gross, Net and weight values of products in tanks based on tank strap tables
- Monitoring and handling of High, High-High, Low and Low-Low level alarms
- Graphical display (mimic diagram) of terminal tanks.
- Historical data base of tank measurements
- Trend charts of tank measurements
- Data reconciliation of measured and expected quantities based on delivery protocols and loading data

1.6 SCADA subsystem

SCADA subsystem for monitoring and control of station pumps and valves:

- Overall station mimic display
- Automated startup and shutdown of product pumps based on current and expected loading orders
- Remote control of pumps and valves
- Interlocks
- Event and alarm monitoring
- User customizable station configuration

1.7 Terminal gate and truck loading

- Registration of truck's arrival and departure times
- Entry and exit weighing
- Checking of actual weight against expected tare and gross weight from loading data.

1.8 Delivery and customs clearance

- Management of terminal fuel tanks
- Entry and management of product delivery protocols
- Entry and management of customs clearance operations
- Product inventories and management of product surpluses or deficits
- Management and reporting on stocks and available quantities
- Checks of loading orders against available quantities

1.9 Central monitoring and control

Centralized access to the oil terminal operations from the company head offices. In detail, the head offices have access to the following data:

- LCU start and end totalizers
- Daily deliveries and loadings rundown
- Modifications of oil terminal LCU parameters
- Totalizer continuity cross check
- Alarm monitoring and handling

1.10 Other features

- Interface with electronic weighing system
- Interface with badge readers
- Truck driver information panel
- Database mirroring and back up
- Interface with MS Excel for statistical analysis

Sample Screens and Forms

Loading Orders Form

Loading Orders List

ID	Start	Driver	Truck	%
Waiting				
31	09:15	ΣΩΤΗΡΟΠΟΥΛΟΣ ΝΙΚΟΛΑΟΣ	EKB 8966	
30	09:14	ΑΛΕΦΑΝΤΖΗΣ ΙΩΑΝΝΗΣ	EKB 8851	
28	09:10	ΧΟΝΔΡΟΠΟΥΛΟΣ ΠΑΝΑΓΙΩΤΗΣ	EKB 8855	
Loading				
29	09:10	ΜΗΛΙΩΤΗΣ ΙΩΑΝΝΗΣ	EKB 3731	
27	09:09	ΚΛΕΙΣΑΟΣ ΓΕΩΡΓΙΟΣ	EKA 9405-	
23	08:38	ΜΠΡΙΤΣΑΣ ΚΩΣΤ.	EKB 5994-	
Finished				
25	08:50	CC-ΣΩΓΡΑΦΟΣ ΣΩΤΗΡΗΣ	EKA 6500	2.38
26	08:55	CR-ΝΕΡΟΥΤΣΟΣ ΦΩΤΙΟΣ	ZKH 9541	6.49
24	08:45	CC-ΠΑΠΑΝΙΚΟΛΑΟΥ ΝΙΚΟΣ	EKA 8393	-1.95
22	08:20	CR-ΑΝΤΩΝΙΟΥ ΠΑΝΑΓΙΩΤΗΣ	EKA 4381	7.43
20	08:03	CC-ΔΑΣΚΑΛΟΠΟΥΛΟΣ ΘΕΟΔΩΡΟΣ	EKA 4479	
21	08:12	CR-ΑΛΕΞΑΝΔΡΟΥ ΚΩΝ/ΝΟΣ	EKE 4380*	0.76
18	07:52	CR-ΑΛΕΦΑΝΤΖΗΣ ΙΩΑΝΝΗΣ	EKA 5165	5.16
19	07:58	CR-ΤΡΟΜΠΟΥΚΗΣ ΝΙΚΟΛΑΟΣ	EKA 8499	6.90
16	07:22	ΚΑΡΘΟΥΝΙΑΡΗΣ ΝΙΚΟΛΑΟΣ	EKA 2802	0.30
17	07:23	CR-ΜΠΟΣΓΙΑΝΑΣ ΓΕΩΡΓΙΟΣ	EKB 1700*	0.29
15	07:17	CC-ΜΑΛΛΙ ΑΡΤΥΡ	EKA 3617	-1.88
14	06:59	CC-ΔΙΠΑΡΑΚΟΣ ΠΡΟΚΟΠΙΟΣ	EKA 8509	1.53
6	06:05	ΔΗΛΑΒΕΡΑΚΗΣ ΣΩΤΗΡΗΣ	EKB 6637	4.16
10	06:15	ΠΛΕΣΣΑΣ ΔΙΟΝΥΣΙΟΣ	EKA 8456-	4.58
12	06:33	ΠΑΡΑΚΑΤΗΣ ΧΡΗΣΤΟΣ	EKB 2610-	0.48
13	06:41	CR-ΤΡΙΑΝΤΟΣ ΑΛΕΞΑΝΔΡΟΣ	EKB 9090	4.10

Loading Orders Details (ID 27)

Truck: EKA 9405- Driver: ΚΛΕΙΣΑΟΣ ΓΕΩΡΓΙΟΣ Stamps Comp: 945524 945541 Gate In: 09:22 License: 40000
 CS E Trailer: P 30719 Company: AVIN OIL Stamps Samp: 945542 945546 Gate Out: Gross: 41189

Loading Orders Compartments

Tank	Product	Additive	Ordered	Gross	Net	Meter	Customer	Loads	Start	End	Status
1	Bd		3300	3302	3258	9.2	ΚΟΛΟΒΟΥ ΑΦΟΙ Ο.Ε.	1	09:34	09:37	✓
2	Bd		2900	2901	2863	9.2	ΚΟΛΟΒΟΥ ΑΦΟΙ Ο.Ε.	1	09:37	09:40	✓
3	U		4450	0	0		ΤΣΑΚΙΡΗΣ ΠΑΝΑΓ.	0			
4	Bd	Π	3700	0	0		ΝΤΕΒΕΣ ΙΩΑΝΝΗΣ	0			
5	U		3950	0	0		ΝΤΕΒΕΣ ΙΩΑΝΝΗΣ	0			
6	Bd	Π	4450	0	0		ΑΝΔΡΙΑΝΑΚΟΣ ΗΛΙΑΣ ΚΑΙ ΣΙΑ ΟΕ	0			
7	Bd	Π	4150	0	0		ΝΤΕΒΕΣ ΙΩΑΝΝΗΣ	0			
8	Bd	Π	3850	0	0		ΝΤΕΒΕΣ ΙΩΑΝΝΗΣ	0			
9	U		2800	2801	2748	9.3	ΝΤΕΒΕΣ ΙΩΑΝΝΗΣ	1	09:35	09:37	✓
10			3200	0	0			0			

Loading Orders Companies

Id	Company	Tanks	Due
7244	ΚΟΛΟΒΟΥ ΑΦΟΙ Ο.Ε.	1,2	09:14
3048	ΤΣΑΚΙΡΗΣ ΠΑΝΑΓ.	3	09:14
3733	ΝΤΕΒΕΣ ΙΩΑΝΝΗΣ	4,5,7-9	09:14
267	ΑΝΔΡΙΑΝΑΚΟΣ ΗΛΙΑΣ ΚΑΙ ΣΙΑ ΟΕ	6	09:14

Product Sum and Truck View

Product	Ordered	Gross	Net	Remaining
U	11200	2801	2748	0
Bd	22350	6203	6121	0

Loading Isles Mimic Display

Loading Isles Mimic Display

Bay	Truck	Order ID	Product	Quantity	Status
Bay 2	[Truck Icon]	2.1	ΕΣΒ ΓΕΙΩΣΗ	27.9	0
		2.2	ΕΣΒ Out of Order	-20	0
		2.3	ΕΣΒ ΓΕΙΩΣΗ	28.8	0
		2.4	ΕΣΒ Out of Order	-20	0
Bay 3	[Truck Icon]	3.1	ΕΣΒ ΔΙΑΜΕΡΙΣΜΑ	30.9	0
		3.2	ΕΣΒ Out of Order	-20	0
		3.3	ΕΣΒ ΟΧΙ ΑΛΛΟ ΠΡΟΙΟΝ	30.8	0
		3.4	ΕΣΒ Out of Order	-20	0
Bay 4	[Truck Icon]	4.1	ΕΣΒ ΓΕΙΩΣΗ	29	0
		4.2	ΕΣΒ ΓΕΙΩΣΗ	29.3	0
		4.3	ΕΣΒ ΓΕΙΩΣΗ	28	0
		4.4	ΕΣΒ ΓΕΙΩΣΗ	26.7	0
Bay 6	[Truck Icon]	6.1	ΕΣΒ ΓΕΙΩΣΗ	32.6	0
		6.2	ΕΣΒ ΓΕΙΩΣΗ	31.2	0
		6.3	ΕΣΒ ΓΕΙΩΣΗ	27.9	0
		6.4	ΕΣΒ ΓΕΙΩΣΗ	30.3	0
		6.5	ΕΣΒ ΓΕΙΩΣΗ	30.8	0
Bay 7	[Truck Icon]	7.1	ΕΣΒ 2:463 of 2850	31.1	105
		7.2	ΕΣΒ 4:418 of 3750	31.3	63
		7.3	ΕΣΒ ΔΙΑΜΕΡΙΣΜΑ	29.6	0
		7.4	ΕΣΒ ΟΧΙ ΠΡΟΙΟΝ	26.8	0
Bay 8	[Truck Icon]	8.1	ΕΣΒ ΓΕΙΩΣΗ	30.9	0
		8.2	ΕΣΒ ΓΕΙΩΣΗ	30.6	0
		8.3	ΕΣΒ ΓΕΙΩΣΗ	30	0
		8.4	ΕΣΒ ΓΕΙΩΣΗ	26.8	0
		8.5	ΕΣΒ ΓΕΙΩΣΗ	26.1	0
Bay 9	[Truck Icon]	9.1	ΕΣΒ Out of Order	-20	0
		9.2	ΕΣΒ 6:1 of 4450	30.7	0
		9.3	ΕΣΒ 5:3275 of 3950	30.7	73
		9.4	ΕΣΒ Out of Order	-20	0

Auto Reset Alarms **ESB** Reset Totalizer Alarms Loading Orders Show Details

Drivers Form

Terminal server connection x Drivers

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File Manage Tank Gauging SCADA Truck Loading Tasks Reports

Drivers List

ID	Name	Password	Adr Date	Exp Date	SAP	Sap
1336	ΤΣΙΓΚΑΣ ΒΑΣ.	01336				806107
492	**ΔΕΝ ΦΟΡΩΝΕΙ ΤΟ ΒΥΤΙΟ**	00492				800956
1216	ΒΙΧΗΚΟΥ ΠΑΝΔΕΛΙ	01216				805406
897	BRINJA MAKSIM	00897				802606
1747	CC-HALULI ARTUR	01747				807559
1751	CC-ΑΛΕΞΑΝΔΡΟΥ ΚΩΝΣΤΑΝΤΙΝΟΣ	01751				805673
1744	CC-ΒΑΣΙΛΑΤΟΣ ΓΕΡΑΣΙΜΟΣ	1744				800075
1756	CC-ΔΑΣΚΑΛΟΠΟΥΛΟΣ ΘΕΟΔΩΡΟΣ	01756				807564
292	CC-ΔΙΠΛΑΡΑΚΟΣ ΠΡΟΚΟΠΙΟΣ	00292				807527
1758	CC-ΖΩΓΚΑΣ ΒΑΣΙΛΕΙΟΣ	01758				807566
1773	CC-ΖΩΓΡΑΦΟΣ ΣΩΤΗΡΗΣ	01773				807179
1742	CC-ΘΥΜΗΣ ΙΩΑΝΝΗΣ	01742				801337
1743	CC-ΚΟΚΚΑΛΗΣ ΕΠΑΜΗΝΩΝΤΑΣ	01743				807558
1752	CC-ΚΟΝΤΟΓΙΑΝΝΗΣ ΔΗΜΗΤΡΙΟΣ	01752				805558
522	CC-ΚΟΡΟΠΟΥΛΗΣ ΓΕΩΡΓΙΟΣ	00522				806778
1753	CC-ΛΙΑΝΟΣ ΚΩΝ/ΝΟΣ	01753				807561
1745	CC-ΝΤΑΪΚΟΣ ΚΩΝ/ΝΟΣ	01745				807338
25	CC-ΠΑΠΑΔΗΜΗΤΡΟΠΟΥΛΟΣ ΓΕΩΡΓΙΟΣ	00725				800313
1765	CC-ΠΑΠΑΝΙΚΟΛΑΟΥ ΝΙΚΟΣ	01765				807180
1749	CC-ΠΟΥΛΟΣ ΙΩΑΝΝΗΣ	01749				807328
1763	CC-ΠΟΥΛΜΕΡΟΣ ΚΩΝΣΤΑΝΤΙΝΟΣ	01763				804034
1759	CC-ΣΙΔΕΡΗΣ ΚΩΝΣΤΑΝΤΙΝΟΣ	01759				807573
1757	CC-ΣΦΗΚΑΣ ΗΛΙΑΣ	01757				807565
1767	CC-ΤΣΙΜΠΟΥΛΗΣ ΑΝΔ	01767				800118
1766	CC-ΤΣΟΥΡΓΙΑΝΝΗΣ ΣΤΑΜΑΤΗΣ	01766				807178

Save Find Add New Delete Refresh Print Page 1 of 56

Trucks Form

Terminal server connection x Trucks

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File Manage Tank Gauging SCADA Truck Loading Tasks Reports

Management of Trucks and Compartments

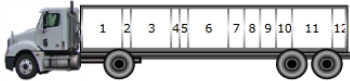
Truck ID	Plate Number	Truck Type	Trail	Trail Number
1537	*FR 5477 C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FR 5674 C
271	*EKA 1193*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1157	*EKA 1215	<input type="checkbox"/>	<input checked="" type="checkbox"/>	P 5697
1611	*EKA 1261	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P 26417
1567	*EKA 1262-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P 17302
1189	*EKA 1288*	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1594	*EKA 1703	<input type="checkbox"/>	<input type="checkbox"/>	
1198	*EKA 3461*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P 31623
1330	*EKA 3515	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P 3846
1720	*EKA 3617	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1136	*EKA 4036-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1216	*EKA 4068	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1218	*EKA 4068	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1219	*EKA 4179	<input type="checkbox"/>	<input checked="" type="checkbox"/>	P 1274
717	*EKA 4650	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Truck Details

Gross: 28450
 Dead Weight: 15000
 Driver: KASEMI DURIM
 Owner: AVIN(ALBANIA)
 Company: AVIN OIL
 ADR: <dd-MM-yyyy>
 MOT: <dd-MM-yyyy>
 License: <dd-MM-yyyy>
 FireExt: <dd-MM-yyyy>
 Stamps: 0
 SAP: 6404

Number	Trailer	Capacity	Ogkos
1	<input type="checkbox"/>	5000	
2	<input type="checkbox"/>	1000	
3	<input type="checkbox"/>	5000	
4	<input type="checkbox"/>	1000	
5	<input type="checkbox"/>	1000	
6	<input type="checkbox"/>	5000	
7	<input type="checkbox"/>	2000	
8	<input type="checkbox"/>	2000	
9	<input type="checkbox"/>	2000	
10	<input type="checkbox"/>	2000	
11	<input type="checkbox"/>	5000	
12	<input type="checkbox"/>	2000	

Trucks List Page 1 of 108



Save Changes Find Truck Refresh Add Truck Delete Truck Add Compartment Delete Compartment

Products Form

Products

Id	Name	Short Name	Unit	Density	Active	Samples	Stamps	Color	Tank	SAP ID	SAP Name
1	LRP	S	Ltr	730	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	T-59	1050	Lrp
3	Unl 95	U	Ltr	731.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-54	1001	BENZINH AMOΛYBΔH
4	Dheat	Dh	Ltr	845	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	T-58	1006	DIESEL HEAT
5	Dauto	D	Ltr	834.6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6	T-52	1005	DIESEL KINHΣHΣ
6	Unl 100	SP	Ltr	737.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7	T-59	1100	AMOΛYBΔH BENZ.100
7	Dauto_bio	Bd	Ltr	832.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6	T-55	1141	BIODIESEL KINHΣHΣ
9	Unl 97	UC	Ltr	732.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5	T-52	1196	BENZINH AMOΛYBΔH 97 RON
101	Nemo 6133	N6	Ltr	731.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	P-1	0	Additive UNL 875 ppm
102	Nemo 2041	N2	Ltr	963.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	P-2	0	Additive Diesel 680 ppm
104	P915	P9	Ltr	737.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	P-3	0	Additive U 18 ppm
105	EMDFA	EM	Ltr	858.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	P-4	0	Additive Bd D 30 ppm

Save Add New Refresh Print

Product Colors

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Save Colors RefreshColors

Additives Form

Additives

Additive	Name	Short	Product	Company	Percent	Number	SAP
EM	EMDFA	Π	D	AVIN OIL	0.0003	11	1000000000005278
EM	EMDFA	Π	Bd	AVIN OIL	0.0003	26	1000000000004526
N2	NEMO 2041	Π	Bd	CORAL	0.00068	26	1000000000004526
N2	NEMO 2041	Π	D	CORAL	0.00068	13	1000000000005678
N6	NEMO 6133	Π	U	CORAL	0.000875	12	1000000000005771
N6	NEMO6133	Π	UC	CORAL	0.00175	17	1000000000005632
P9	P 915	Π	U	AVIN OIL	0.00018	24	1000000000003421
N6	Πρόσθετο-U	Π	SP	MOTOR OIL	0.00155	12	1000000000005771

Save Add New Refresh Print

LCUs Form

Terminal server connection x Meters x +

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File Manage Tank Gauging SCADA Truck Loading Tasks Reports

ID	Truck	Driver	Time	Unl 95	D-HHO	D-ADO	GASOIL EX	GASOIL2				
14	4.3	4	U	Acc II	303	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	T-53	32888	32894
15	4.5	4	U	Acc II	305	2	<input type="checkbox"/>	<input type="checkbox"/>	1	T-53	0	0
16	6.2	5	U	Acc III	402	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-53	44830326	44454671
17	6.1	5	Bd	Acc III	401	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	T-55	35536147	35293256
18	6.4	5	Bd	Acc III	404	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-55	0	0
19	6.3	5	UC	Acc III	403	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	T-52	13000	5000
20	6.5	5	U	Acc III	405	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-53	0	0
21	7.2	7	U	Acc II	502	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	T-53	18591522	37630204
22	7.1	7	Bd	Acc II	501	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-55	22087818	57325938
23	7.4	7	SP	Acc II	504	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	T-59	7886724	16929361
24	7.3	7	U	Acc II	503	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-53	12962011	33228674
25	7.5	7	U	Acc II	505	4	<input type="checkbox"/>	<input type="checkbox"/>	1	T-53	0	0
26	8.2	8	U	Acc III	602	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-53	12962011	33228674
27	8.1	8	Bd	Acc III	601	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-55	12962011	33228674
28	8.4	8	UC	Acc III	604	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-52	12962011	33228674
29	8.3	8	U	Acc III	603	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-53	12962011	33228674
30	8.5	8	SP	Acc III	605	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-59	0	0
31	9.2	9	Bd	Acc III	702	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-55	12962011	33228674
32	9.1	9	Dh	Acc III	701	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-58	12962011	33228674
33	9.4	9	Dh	Acc III	704	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-58	12962011	33228674
34	9.3	9	U	Acc III	703	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	T-53	12962011	33228674
35	9.5	9	U	Acc III	705	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	T-53	0	0

Save Refresh

Reports Form

Firefox

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Truckman.NET 07-09-2012

File Manage Tank Gauging SCADA Truck Loading Reports

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DailyOrders

TotalizersReport

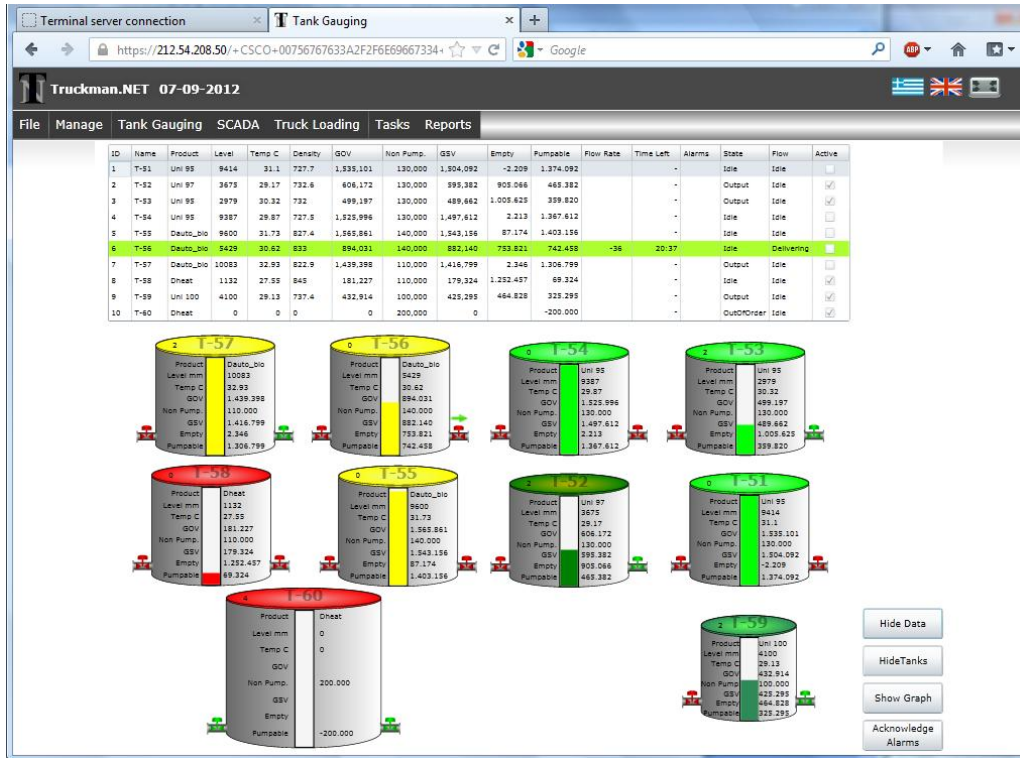
Period Report

ID	Truck	Driver	Time	Unl 95	D-HHO	D-ADO	GASOIL EX	GASOIL2
Company: CORAL (3 items)								
1	EKB 2214	ΣΙΚΛΑΦΙΔΗΣ ΠΑΥΛΟΣ	06:57	8,946	0	19,156	0	0
3	EKB 1660	ΣΥΡΓΙΩΤΗΣ ΠΟΛΥΔΩΡΟΣ	07:37	7,432	0	10,311	0	0
5	EKB 3020	ΚΑΡΓΙΟΣ ΧΡΗΣΤΟΣ	08:10	3,864	0	28,248	0	0
Company: AVIN (3 items)								
2	ΙΟΟ 2058	ΑΔΑΜΙΔΗΣ ΙΩΑΝΝΗΣ	07:21	15,460	0	17,352	0	0
4	ΕΚΕ 1015	ΘΩΜΑΙΔΗΣ ΠΑΝΑΓΙΩΤΗΣ	07:50	2,278	0	17,591	0	0
6	ΕΚΑ 7182	ΣΤΑΦΥΛΑΣ ΣΤΑΥΡΟΣ	08:33	17,024	0	10,108	0	0
Company: Υποσύνολα (2 items)								
0		CORAL	00:00	20,242	0	57,715	0	0
0		AVIN	00:00	34,762	0	45,051	0	0
Company: Γενικό Σύνολο (1 item)								
0			00:00	55,004	0	102,766	0	0

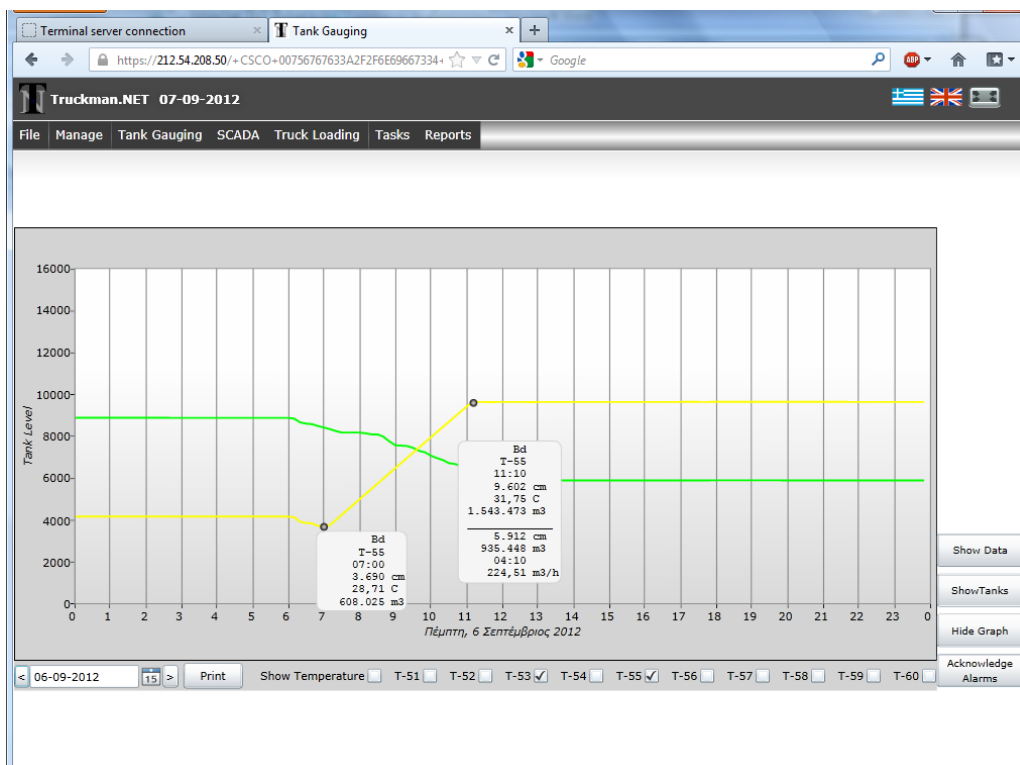
Company Print

Tank Gauging Subsystem

Tank Mimic Display



Tank Graphs



Tank Definition and Strap Table

Tanks List

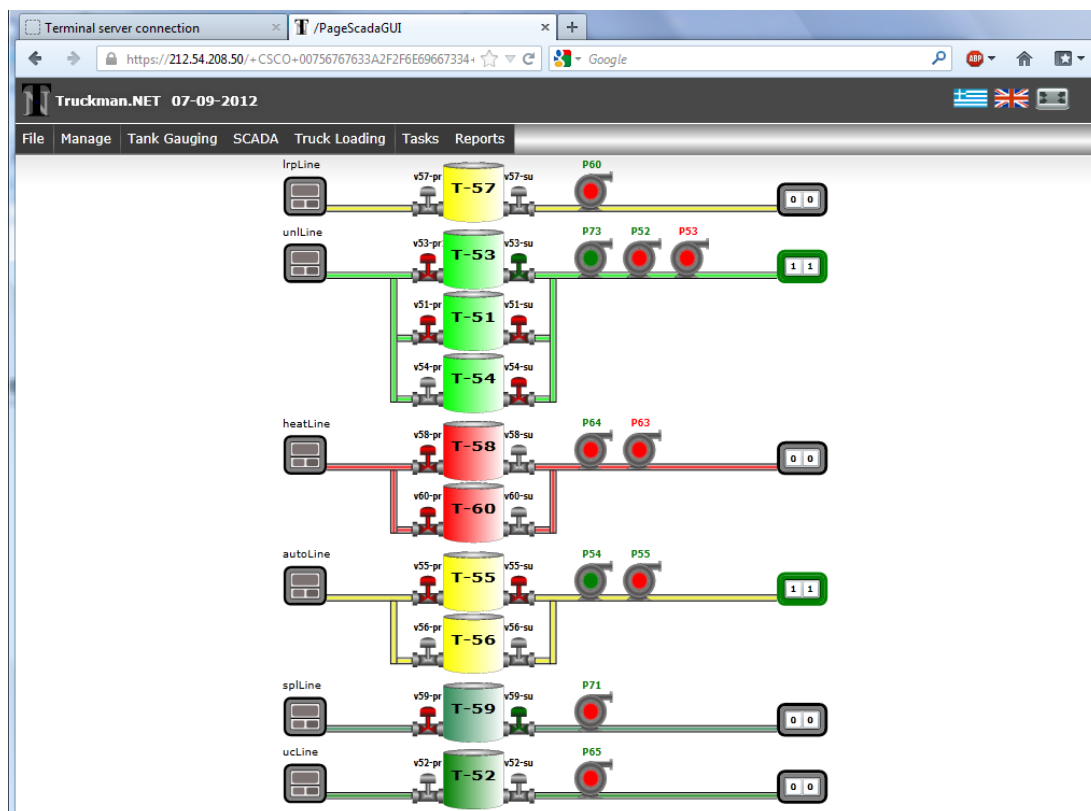
ID	Name	Product	Active	Scan
1	T-51	U	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	T-52	UC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	T-53	U	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	T-54	U	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	T-55	Bd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	T-56	Bd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	T-57	Bd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	T-58	Dh	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	T-59	SP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	T-60	Dh	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
101	P-1	N6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
102	P-2	N2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
103	P-3	P9	<input checked="" type="checkbox"/>	<input type="checkbox"/>
104	P-4	EM	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Strap Table

Strap Number	Level	Volume
1	1875	301931
2	3884	625500
3	5891	948888
4	7900	1272357
5	9417	1516579
6	10692	1721841

Parameters: Type: 2, Roof Weight: 924, Density: 727.7, Base Vol: 20300, Level: 9414, Max Level: 9400, Temp: 31.1, Min Volume: 130000, GOV: 1535101, KPlak: 1540, GSV: 1504092, Aplak: 1650, Mass: 1094528, Offset: 0, HH: 9400, LL: 750, HS: 8900, LS: 800.

SCADA Subsystem



Deliveries and Customs Clearance Form

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File Manage Tank Gauging SCADA Truck Loading Tasks Reports

Deliveries Delivery Type active

Protocol	Date	Tank	Product	Net	Origin
477747	28-08-12	T-54	U	1.355.874	D
477750	30-08-12	T-51	U	1.342.790	D
477752	03-09-12	T-53	U	1.352.020	D
477754	04-09-12	T-54	U	1.306.610	D
477756	06-09-12	T-51	U	1.344.990	D
477632	30-04-12	T-58	Dh	155.440	D
	18-05-12	T-58	Dh	24.731	I
	13-07-12	T-58	Dh	74	I
477666	13-06-12	T-59	SP	501.103	D
477731	10-08-12	T-59	SP	489.020	D

Protocol 477747 Date 28-08-2012

Tank T-54 Product U

CAR Bd Net 1.355.874

Get Start Calculate Net Get End

Start Time 28/08/12 13:27 End Time 28/08/12 13:28

Start Level 754 End Level 9.413

Start Temp 34,7 End Temp 32,3

Start Density 732,8 End Density 731,8

Start Net 134.739 End Net 1.497.131

Add Delivery Delete Delivery Edit Delivery Print

Delivery Distributions

Company	Date	AC	Initial	Deliv.	Remain.
MOTOR OIL	28-08	Y	1.355.874		0
MOTOR OIL	31-08	Y	-905.874	-905.874	0
AVIN OIL	31-08	Y	905.874	905.874	0
MOTOR OIL	31-08	Y	-100.000	-100.000	0
CORAL	31-08	Y	100.000	100.000	0

Add Delete Transfer

Customs Clearances

Company	Date	AC	CT	Deliv.	Remain.	Погоб.	Διοβ.
AVIN OIL	31-08	Y	E		905.874	905.874	0
CORAL	31-08	Y	E		100.000	100.000	0
CYCLON	31-08	Y	E		70.000	101.632	38.368
CORAL	03-09	Y	E		280.000	280.000	0

Add Delete

Company AVIN OIL

Pr	CT	Initial	Deliv.	Pending	Remain.	Διοβ.
U	Y	1.000.000				
U	E	372.086	185.940	19.257	58.764	108.125
Dh	Y	24.805				
SP	Y	20.700				
SP	E	15.950	1.976			
Bd	Y	950.010				
Bd	E	354.148	185.311	16.703	48.019	104.115
P9	Y	0				
P9	E	1.233	11			
EM	Y	0				
EM	E	556	42			

Inventory Form

Terminal server connection x PageInventory Page x +

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File Manage Tank Gauging SCADA Truck Loading Tasks Reports

Inventory Protocols Inventory 31/08/12

Tank	Product	Protocol	date	Net
T-51	U		31-08-12	1,501,319
T-52	UC		31-08-12	681,416
T-53	U		31-08-12	163,837
T-54	U		31-08-12	1,496,555
T-55	Bd		31-08-12	1,627,525
T-56	Bd		31-08-12	361,226
T-57	Bd		31-08-12	1,412,836
T-58	Dh		31-08-12	180,245
T-59	SP		31-08-12	491,589
T-60	Dh		31-08-12	0

Add Inventory Delete Inventory Finalize Inventory

Protocol Tank T-52 Product UC

CAR Bd Net 681,416

Get Start Calculate Net

Start Time 31/08/12 14:48

Start Level 4,236

Start Temp 32.2 Save

Start Density 732.6

Start Net 681,416 Print

Inventory Product Totals

Product	Measured	Calculated	Fixed	Differ.
S	0	0	0	0
U	3,161,711	3,109,814	0	51,897
Dh	180,245	0	0	0
D	0	0	0	0
SP	491,589	490,714	0	875
Bd	3,401,587	3,359,168	0	42,419
UC	681,416	678,950	0	2,466
N6	0	0	0	0
N2	0	0	0	0

Recalculation Fix Excess Volume

Deliveries

Protocol	Date	Tank	Product	Net	Origin
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Delivery Distributions

Company	Date	AC	Initial	Deliv.	Remain.
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Add Delete Transfer

Gate Form

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File Manage Tank Gauging SCADA Truck Loading Tasks Reports

Gate

ID	Truck	Driver	Gate In	Tare	Gate Out	Gross	Net	Expected	Diff %	Check	
-	33	EKB 5320*	ΚΑΡΒΟΥΝΗΣ ΚΩΝΣΤ			0	0	0		<input type="checkbox"/>	
-	32	EKA 8458	CR-ΚΑΠΕΤΑΝΗΣ ΚΩΝΣΤΑΝΤΙΝΟΣ			0	0	0		<input type="checkbox"/>	
-	31	EKB 8966	ΣΩΤΗΡΟΠΟΥΛΟΣ ΝΙΚΟΛΑΟΣ			0	0	0		<input type="checkbox"/>	
-	30	EKB 8851	ΑΛΕΦΑΝΤΖΗΣ ΙΩΑΝΝΗΣ			0	0	0		<input type="checkbox"/>	
-	28	EKB 8855~	ΧΟΝΔΡΟΠΟΥΛΟΣ ΠΑΝΑΓΙΩΤΗΣ			0	0	0		<input type="checkbox"/>	
Load	29	EKB 3731	ΜΗΛΙΩΤΗΣ ΙΩΑΝΝΗΣ	09:33	14,160		0	0		<input type="checkbox"/>	
Load	27	EKA 9405-	ΚΛΕΙΔΑΣΟΣ ΓΕΩΡΓΙΟΣ	09:22	14,380		0	0		<input type="checkbox"/>	
Out	26	ZKY 9541	CR-ΝΕΡΟΥΤΣΟΣ ΦΩΤΙΟΣ	09:05	13,180	09:36	34,600	21,420	21,560	6.49	<input type="checkbox"/>
Dept	25	EKA 6500	CC-ΖΩΓΡΑΦΟΣ ΣΩΤΗΡΗΣ	09:01	14,810	09:39	39,120	24,310	24,368	2.38	<input type="checkbox"/>
Dept	24	EKA 8393	CC-ΠΑΠΑΝΙΚΟΛΑΟΥ ΝΙΚΟΣ	08:58	14,300	09:31	41,000	26,700	26,648	-1.95	<input type="checkbox"/>
Out	23	EKB 5994-	ΜΠΡΙΤΣΑΣ ΚΩΣΤ.	09:19	14,350		0	0		<input type="checkbox"/>	
Out	22	EKA 4381	CR-ΑΝΤΩΝΙΟΥ ΠΑΝΑΓΙΩΤΗΣ	08:31	18,590	09:24	42,900	24,310	24,492	7.43	<input type="checkbox"/>
Out	21	EKE 4380*	CR-ΑΛΕΞΑΝΔΡΟΥ ΚΩΝ/ΝΟΣ	08:16	14,910	08:57	39,840	24,930	24,949	0.76	<input type="checkbox"/>
BOL	20	EKA 4479	CC-ΔΑΣΚΑΛΟΠΟΥΛΟΣ ΘΕΟΔΩΡΟΣ	08:08	18,250		0	0		<input type="checkbox"/>	
Out	19	EKA 8499	CR-ΤΡΟΜΠΟΥΚΗΣ ΝΙΚΟΛΑΟΣ	08:05	17,870	08:43	38,600	20,730	20,874	6.90	<input type="checkbox"/>
Out	18	EKA 5165	CR-ΛΕΦΑΝΤΖΗΣ ΙΩΑΝΝΗΣ	07:58	18,440	08:46	40,600	22,160	22,275	5.16	<input type="checkbox"/>
Out	17	EKB 1700"	CR-ΜΠΟΣΓΑΝΑΣ ΓΕΩΡΓΙΟΣ	07:30	14,190	07:59	41,820	27,630	27,638	0.29	<input type="checkbox"/>
Out	16	EKA 2802"	ΚΑΡΒΟΥΝΙΑΡΗΣ ΝΙΚΟΛΑΟΣ	07:37	14,820	08:06	41,680	26,860	26,868	0.30	<input type="checkbox"/>
Dept	15	EKA 3617	CC-HALULI ARTUR	07:20	23,170	07:29	25,300	2,130	2,126	-1.88	<input type="checkbox"/>
Out	14	EKA 8509	CC-ΔΙΠΛΑΡΑΚΟΣ ΠΡΟΚΟΠΙΟΣ	07:04	14,390	07:36	42,480	28,090	28,133	1.53	<input type="checkbox"/>
Out	13	EKB 9090	CR-ΤΡΙΑΝΤΟΣ ΑΛΕΞΑΝΔΡΟΣ	06:45	17,810	07:14	39,900	22,090	22,181	4.10	<input type="checkbox"/>

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Tare Refresh Check Gate Report Change Weight Print BOL

Station Overview

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Truckman.NET 07-09-2012

File Manage Tank Gauging SCADA Truck Loading Tasks Reports

Bay	ID	Truck	Driver	ESB	Status	Weight	Net	Expected	Diff %
Bay 2	2.1	ESB	ΓΕΙΩΣΗ	28	0				
	2.2	ESB	Out of Order	-20	0				
	2.3	ESB	ΓΕΙΩΣΗ	28.9	0				
	2.4	ESB	Out of Order	-20	0				
Bay 3	3.1	ESB	ΓΕΙΩΣΗ	31.5	0				
	3.2	ESB	Out of Order	-20	0				
	3.3	ESB	ΓΕΙΩΣΗ	30.7	0				
	3.4	ESB	Out of Order	-20	0				
Bay 4	4.1	ESB	ΓΕΙΩΣΗ	29	0				
	4.2	ESB	ΓΕΙΩΣΗ	29.8	0				
	4.3	ESB	ΓΕΙΩΣΗ	28.1	0				
	4.4	ESB	ΓΕΙΩΣΗ	26.7	0				
Bay 6	6.1	ESB	ΓΕΙΩΣΗ	33.8	0				
	6.2	ESB	ΓΕΙΩΣΗ	31.2	0				
	6.3	ESB	ΓΕΙΩΣΗ	27.8	0				
	6.4	ESB	ΓΕΙΩΣΗ	30.1	0				
Bay 7	7.1	ESB	OXI ΑΛΛΟ ΠΡΟΙΟΝ	31.1	0				
	7.2	ESB	7.506 of 4150	31.4	90				
	7.3	ESB	ΔΙΑΜΕΡΙΣΜΑ	29.7	0				
	7.4	ESB	OXI ΑΛΛΟ ΠΡΟΙΟΝ	26.9	0				
	7.5	ESB	ΓΕΙΩΣΗ	30.6	0				
Bay 8	8.1	ESB	ΓΕΙΩΣΗ	31.1	0				
	8.2	ESB	ΓΕΙΩΣΗ	30.7	0				
	8.3	ESB	ΓΕΙΩΣΗ	29.9	0				
	8.4	ESB	ΓΕΙΩΣΗ	26.9	0				
	8.5	ESB	ΓΕΙΩΣΗ	26.3	0				
Bay 9	9.1	ESB	Out of Order	-20	0				
	9.2	ESB	8.0 of 3850	30.6	0				
	9.3	ESB	OXI ΑΛΛΟ ΠΡΟΙΟΝ	30.7	0				
	9.4	ESB	Out of Order	-20	0				

Auto Reset Alarms ESB Reset Totalizer Alarms Loading Orders Show Details

References

Tuck Manager and Truckman.NET has been installed at the following sites:

<i>Oil Terminal</i>	<i>Installed subsystems</i>						
	<i>Loadi ng MGM T</i>	<i>Isle Automation</i>	<i>Gate</i>	<i>Deliveries- Customs</i>	<i>Tank Manager</i>	<i>Invoices</i>	<i>SCADA</i>
AVIN Ag. Theodori	YES	YES	YES	YES	YES	YES	YES
EKO Alexandroupoli	YES	YES	NO	NO	NO	NO	NO
BP Igoumenitsa	YES	YES	NO	NO	NO	NO	NO
BP Kalamata	YES	YES	NO	NO	NO	NO	NO
BP Heraklion	YES	YES	NO	NO	NO	NO	NO
BP Perama	NO	YES	NO	NO	NO	NO	NO
Shell Amfilochia	NO	YES	NO	NO	NO	NO	NO
Shell Chania	NO	YES	NO	NO	NO	NO	NO
RPI Rhodes	YES	YES	NO	YES	NO	YES	NO
RPI Alexandroupolis	YES	YES	NO	YES	NO	YES	NO
SUN Oil Chalkis	YES	YES	NO	YES	YES	NO	NO
KA Oil Almyros	YES	YES	NO	YES	NO	NO	NO
Cyclon Perama	YES	YES	NO	NO	NO	NO	NO
Coral SA Kavala	YES	YES	NO	NO	NO	NO	NO
Hellenic Fuels Mytilini	YES	YES	NO	NO	NO	NO	NO
Agean Alexandroupolis	YES	YES	NO	NO	NO	NO	NO