



ASSET MANAGEMENT SOLUTION

OMPANY

DIGITAL CONTROL SYSTEMS

Asset MANAGEMENT SOLUTIONS

HISTORY

Due to the rapid demand on safety and security of vehicles in transportation operations and asset management Digital Control Systems (DCS) as manufacturer was established in year 2009 in UAE, specialized in designing and developing asset management solutions bringing the most advanced technology into the emergent market of MEA adopting German technology with an international standardized model accommodating local need's and highly customizable features (DCS) was able to successfully introduce one of the cutting edge technological product to assist its clients exploiting resources and enhance safety and security as primary objective within (Asset management Solutions)

(DCS) has been approved to be one of the top leading (Asset management Solutions) providers within the largest organization operations of Oil and Gas field on global level complying with the high standard rules and regulations of its clients through their day to day needs and requirements (DCS) continually strives to have become a strategic partner to its clients.

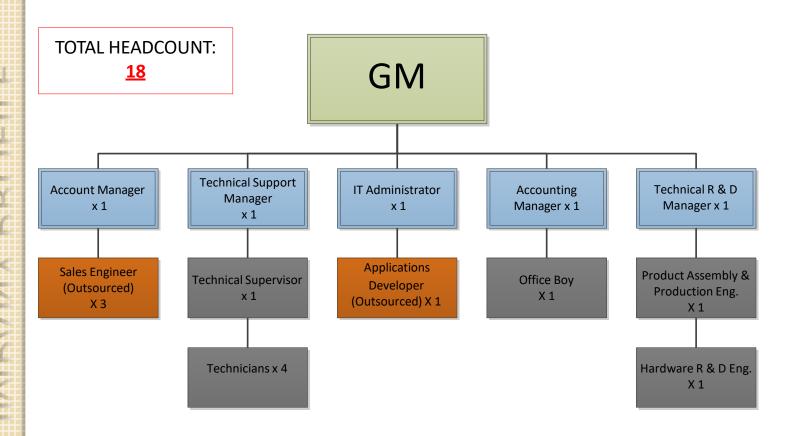


COMPANY PROFILE

DIGITAL CONTROL SYSTEMS

FLEET MANAGEMENT SOLUTIONS

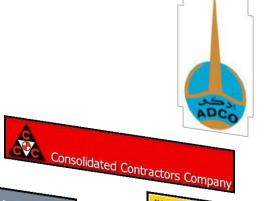
ORGANIZATIONAL CHART



FLEET MANAGEMENT SOLUTIONS

STRATEGIC CLIENTS

- Being one of the top ADCO's authorized vendors, our endeavor to serve our clients is something that we are proud of, on constant growth and expansion our key clients have greatly added into our success.
- Beside our internal achievement, our company goals for achieving best plans on regional level had been remarkable, our company operates in UAE, Syria, IRAQ, & Pakistan































COMPANY PROFILE

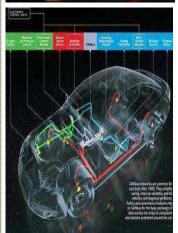
DIGITAL CONTROL SYSTEMS

Asset MANAGEMENT SOLUTIONS

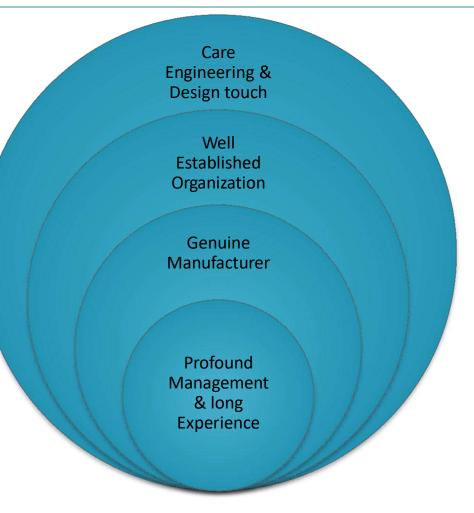
COMPETIVITY











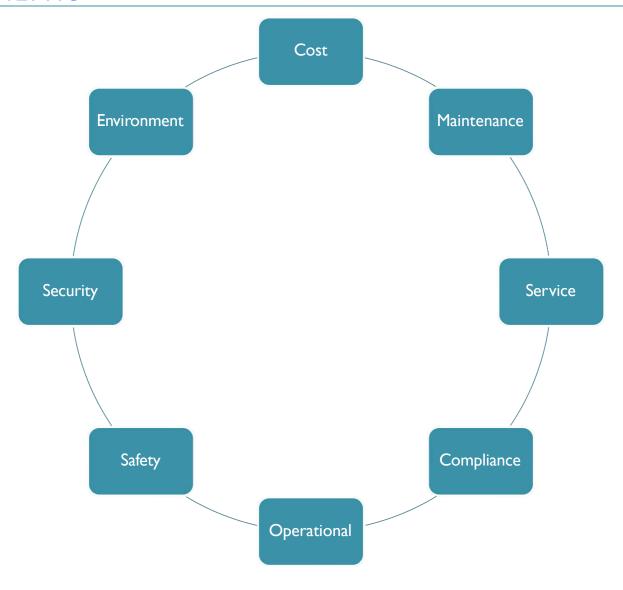
ASSET MANAGEMENT SOLUTIONS

SOLUTION'S KEY UTILIZATIONS



ASSET MANAGEMENT SOLUTIONS

KEY BENEFITS

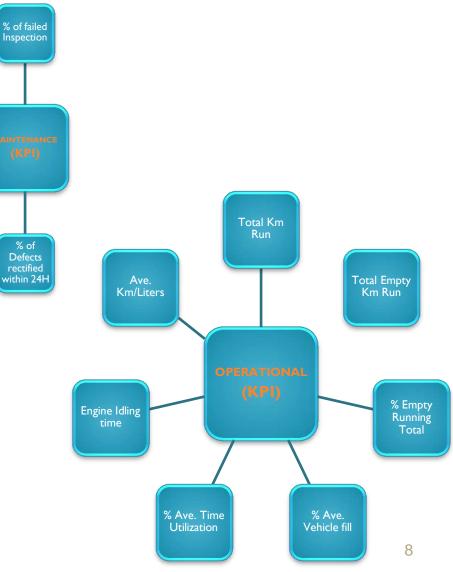


ASSET MANAGEMENT SOLUTIONS

OPERATIONAL AND ASSET COST CONTROL

- Monitoring & tracking all sort of assets.
- Controlling & maneuvering all fleet operational asset and expenditures to help you have direct cutting cost strategy



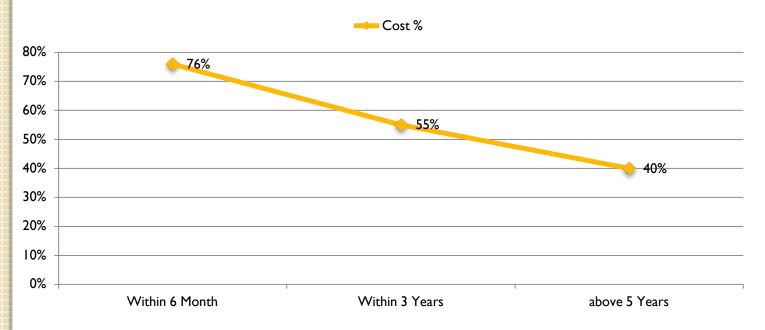


ASSET MANAGEMENT SOLUTIONS

FINANCIAL IMPACT

- the cost reduction is observed upon utilization of asset management solutions which had reduced cost of operations, and increased the asset appreciation value including safety of asset that is invaluable.
- The cost reduction is quite significant and yet supported by many researchers and big well-know international organizations

COST REDUCTION





FLEET MANAGEMENT SOLUTIONS

SERVICE OPERATIONS

- * Exceptionally our dedicated on-site team are always on reach, our services and customer service qualities are premium and within reach.
- Any issues within all business days are on-site and immediately ready to support you with best services according to your needs
- Standard escalation procedure helps you tackle any issue within less than 24Hours
- Our Product & Solution are covered within warranty standard
- All products are upgradable according to the most convenient technological advancement of GSM
- Our servers are utilizing the highest security & hardware protocol for your convenience, all data is stored and archived over a very long time span
- Our solution is highly configurable and customizable according to client's needs this includes user interface application and reports

PERFORMANCE

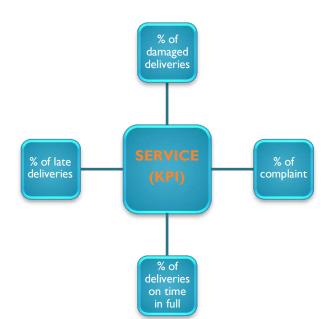
DIGITAL CONTROL SYSTEMS

ASSET MANAGEMENT SOLUTIONS

MANAGEMENT EFFICIENCY & EFFECTIVENESS

- Managing your asset has become extraordinarily efficient
- Customer satisfaction significantly improved
- Offering more services and qualitative deliveries is easy
- Incentive scheme and compensation for employees is simple
- Safety and security of inventories and goods deliverables to customers is quite handy



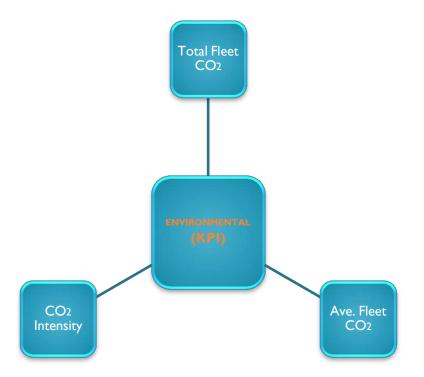


FLEET MANAGEMENT SOLUTIONS

ENVIRONMENTAL IMPACT

Now you can start implement a total quality management system which is highly compatible with all QMS and EMS ISO standards which help you save the planet and keep it environmentally clean.



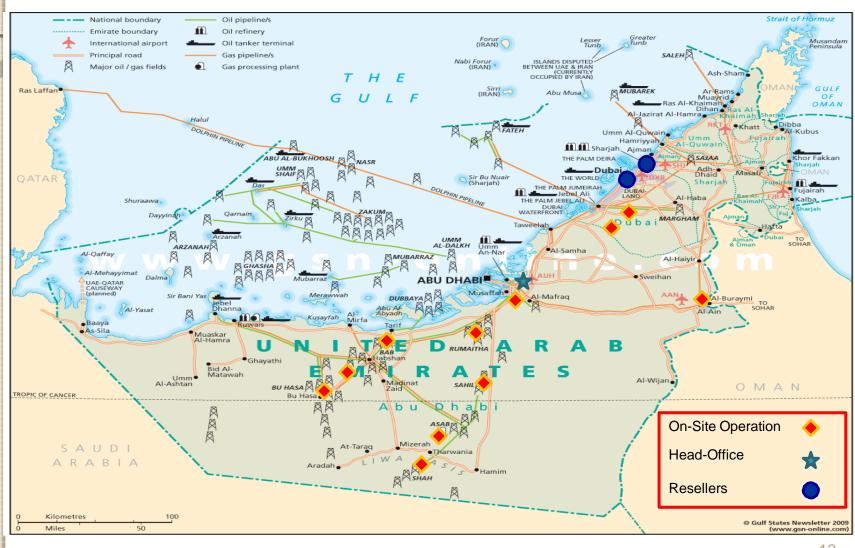


OMPANY PROFILE

DIGITAL CONTROL SYSTEMS

FLEET MANAGEMENT SOLUTIONS

BRANCHES & OPERATIONS

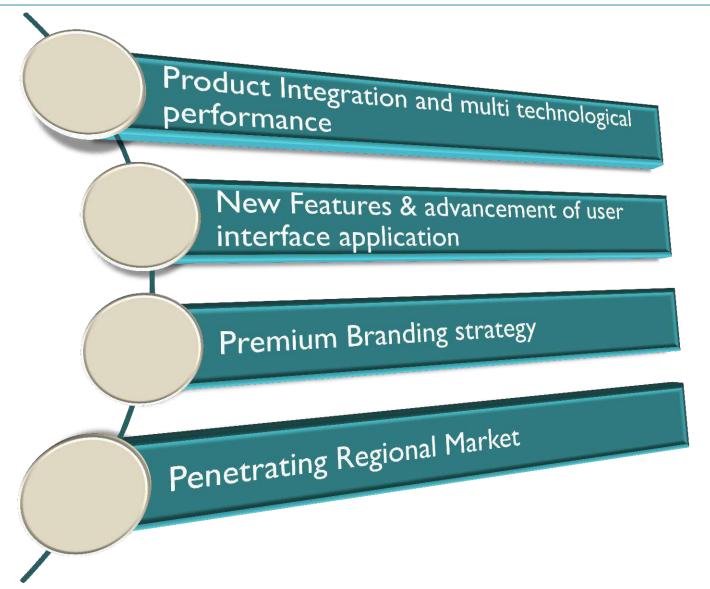


OMPANY PROFILE

DIGITAL CONTROL SYSTEMS

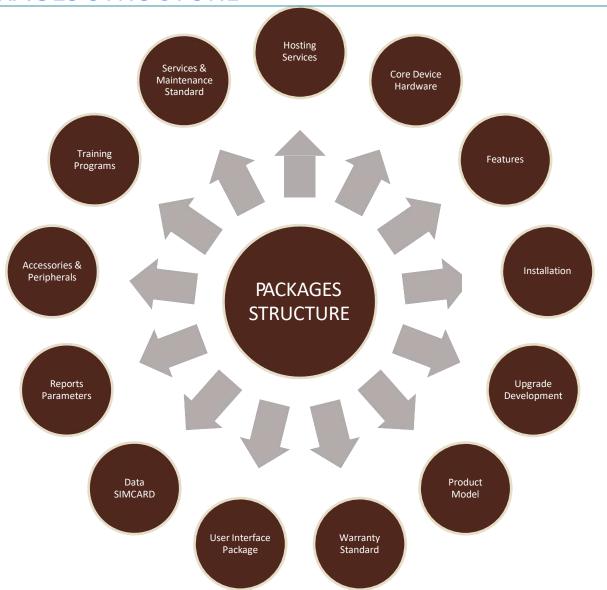
FLEET MANAGEMENT SOLUTIONS

STRATEGY



FLEET MANAGEMENT SOLUTIONS

PACKAGES STRUCTURE

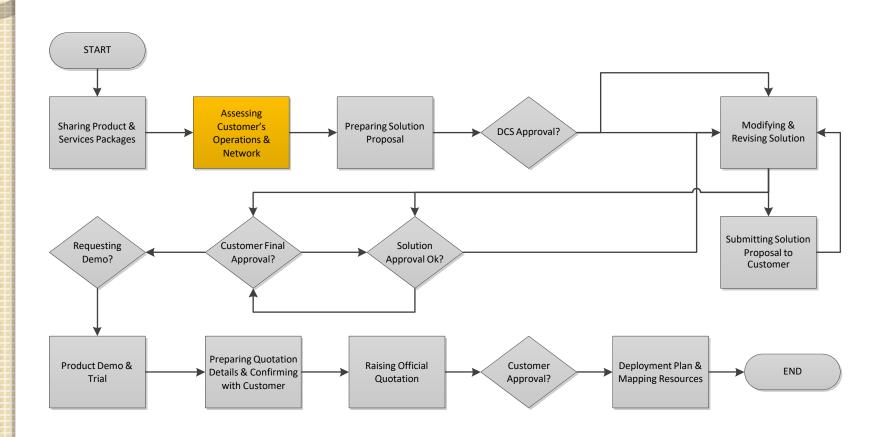


OMPANY PROFILE

DIGITAL CONTROL SYSTEMS

FLEET MANAGEMENT SOLUTIONS

SALES OPERATION



OMPANY

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FLEET MANAGEMENT SOLUTIONS

ADCO's APPROVAL



Ref

Date

MEMORANDUM

L-HSEM-HS-10-524

15th December 2010

To : All Contractors, ADCO Contract Administrators

 LIST OF APPROVED IVMS VENDORS FOR IMPLEMENTING REALTIME, IN-VEHICLE MONITORING SYSTEM (IVMS) FOR ADCO NEW CONTRACTORS VEHICLES.

In-Vehicle Monitoring System (IVMS) is one of the key requirement of ADCO Road Safety policies to help in reducing driver violations, number of injuries, vehicle crashes, improving vehicle reliability etc. Contractors using vehicles in ADCO concession areas are also required to comply with ADCO road safety rules which include installation and maintenance of online IVMS devices in their vehicles and providing ADCO with required information and reports.

There is a need to improve Road Safety Performance by monitoring of all Contractor vehicles to overcome issues such as -

- Vehicles found travelling in concession areas without monitoring devices.
- Poor maintenance of system and related data.
- Inaccurate and irregular reporting of data to ADCO Road Safety Staff.

In order to address these issues ADCO has evaluated and approved seven IVMS Vendors (Appendix-1) which can be used by the contractors. Extended list of the ADCO approved IVMS Vendors will eliminate previously raised concerns of having only two solution providers and it will have a positive impact on a healthy market competition, service quality and competitive rates.

The Appendix-II details ADCO's approach in implementing the Online IVMS system.

Regards.

Abdulla Al Marzoogi Vice President (HSE)

c.t : ADCO Senior Management Team



MEMORANDUM

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Appendix-II (Implementation Approach)

- ADCO has approved hardware devices and its related software solution that meets ADCO's requirements such as online data transfer, real time violation recording, GPS capability, unique driver identification keys etc.
- All new contractors will be required to choose any Vendor from the approved list. Contractors shall not mix technologies in order to have a simpler system for maintenance and reporting. Existing contractor vehicles will continue as they are until their contract is expired.
- Contractor will be responsible for procuring all components of the IVMS system i.e. hardware devices and related licenses from the solution providers. SIM Cards for online data transfer via GPRS may either be provided by the vendor or purchased directly by the Contractor and configured by the vendor. The ownership of these components will remain with the Contractor.
- Contractor will be responsible for Maintenance of their IVMS system. It is recommended to have a maintenance contract with the same solution provider that contractor selected.

Appendix- I (Approved IVMS Vendors)

No	Vendor	Address	Contact Person	Device(s) Approved	
1	GAM (Gulf Asset Management)	P.O.Box 55157 Abu Dhabi, U.A.E. Tel: 971 2 6772200 Fax: 971 2 6778713 www.gulfasset.org	Mr. Hussein Al Baidany Mobile : 971508134589 albaidany@gulfasset.org	VLM	

FLEET MANAGEMENT SOLUTIONS

TRA APPROVAL & REGISTRATION

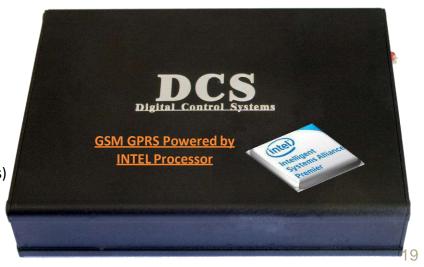


ASSET MANAGEMENT SOLUTIONS

AMCD – Asset Management Solution

- AMCD lets you manage your Assets in real-time, offline regardless of where your assets are.
- You can track and manage your assets and have exceptions reported to you any time.
- This helps you actively & pro-actively manage your assets, Keeping you in control all the time.
- Up to 20 Inputs and 20 Outputs.
- Used smartly for mobile and Stationary assets.
- Multiple communications methods (GSM, WiFi, RC, Ethernet, USB).
- Large internal memory for offline modes.
- Ability to operate based on predefined formulas (Offline).
- Suitable for harsh environment operation (Remote Sites)





ASSET MANAGEMENT SOLUTIONS

AMCD – Asset Management Solution – Technical Specifications

- Power:
 - ❖ Input voltage 9V 48V DC.
 - ♦ (110 DCV For Heavy Equipment.
 - Internal Backup Battery (6 Hours).
- Physical characteristics:
 - **❖** Dimensions 4.5" x 3" x 0.8"
 - Weight 200g
- **❖** I/O:
 - **❖** 2 Rs232.
 - ❖ 20 Analog Digital Frequency Inputs (User Selection).
 - ❖ 20 Relay Contact output.
 - ❖ 1 Buzzer.
 - ❖ 1 Internal 50DCV Relay.
 - Built-in G Sensor.
- RFID
 - ❖ 1 RFID Reader (Hi Frequency OR Low Frequency).
 - ❖ 2 Led Indicators.
 - ❖ 1 Buzzer Indicator.
 - **❖** Up To 10,000 IDs.
- Wireless Communication:
 - Built-in 3G Module.
 - ❖ Ability to operate in Quad-Band GSM 850/900/1800/1900.
 - ❖ Wi-Fi.
 - Frequency 433.1 Mhz
 - ❖ Max Power +10 dbm.
 - Internal & External GSM antenna / External GPS antenna
 - Remote Firmware & Settings Update

- RTC:
 - ❖ Built-in RTC.
 - ❖ Battery life >6 Years.
- Storage:
 - ❖ Events Messages 8MB up to 16MB.
 - Tacho (secondly) 8MB up to 16MB.
- ❖ GPS & Geo-fence:
 - Built-in GPS Module
 - ❖ Up to 3000 point multi-polygon shape.
- ***** Environmental specification:
 - Operation Temperature range -40C to +70C.
 - Operation humidity range up to 95%.
- Accessories:
 - ❖ Asset Peripheral ID.
 - **A** CAN Bus.
 - Finger Print.
 - MP3 Speaker.
 - HUB Mode.

ASSET MANAGEMENT SOLUTIONS

AMCD – Examples of Use

AMCD has the ability to connect to almost all kinds of sensors and controllers, with this unique feature the device capabilities is limited only by the imagination of the operator.

- ❖ Water Desalination Plant: Ability to set reminders for maintenance and report failure of systems.
- Electricity Plants: Ability to monitor operation, shutdown while generator is overloaded and switching between generators.
- **Access Control**: ability to identify operators and run a role-based operation system.
- Fire Fight & Detection System: Ability to sense fire by Smoke, heat, Flame etc.... and notify authorities, setting off the alarm and start the foam and/or water sprinklers.
- **❖ Factories and production lines :** Ability to monitor the production line and factory and have custom action based on all kinds of exceptions for example (system overload, performance drop, etc....

ASSET MANAGEMENT SOLUTIONS

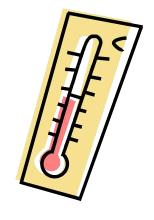
FEATURES



Site Power Generators



Fuel Consumption Monitoring



Engine & Container Temperature Monitoring



Surveillance



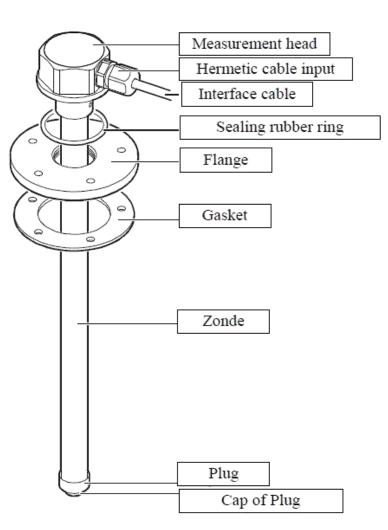
Forbidden Zone Entering & Immobilization



Control Locks

ASSET MANAGEMENT SOLUTIONS

Fuel management



- Fuel level sensor is designed for precise measuring of the fuel level in reservoirs and vehicle fuel tanks.
- There are two types of fuel sensor, stationary and mobile
- Higher precision measurement of fuel due to: high-resolution of the sensor, linearity, temperature stability;
- Explosion proof. Sensor has all required explosion proof certificates;
- Modular construction. Measuring head is mounted and dismantled independently of the fuel probe, which allows easily and quickly to change, if necessary, the measuring head without re-calibration of the tank.
- Wide range of possible probe length. The sensor with the length 75cm can be cut down up to 3cm. Non-standard length up to 3m;
- Ease of installation. Only a small tube cutter needed to cut the probe. No need to sink the probe into the tank before the calibration;
- Light weight (300g).

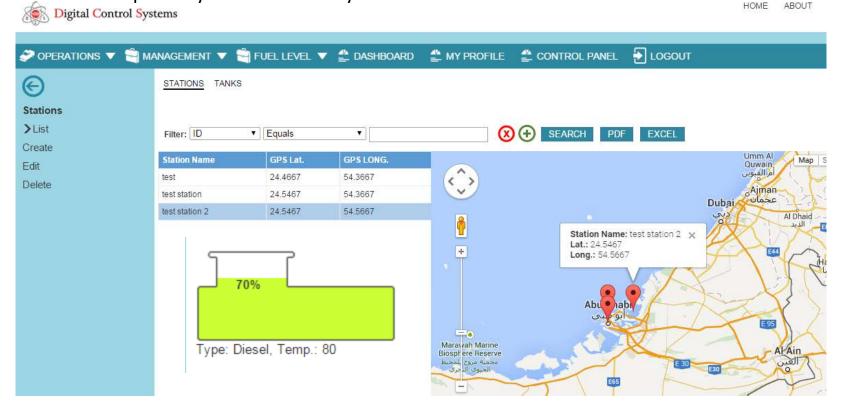
RMATION

DIGITAL CONTROL SYSTEMS

ASSET MANAGEMENT SOLUTIONS

Fuel management

- The online web application lets you monitor and track your generator/tanker/station online and live 24/7 and it gives you the ability to get notified by email and/or SMS with exceptions and violations.
- The application can be programmed to allow a certain amount of consumption per hour and will report any violation directly to user.



FLEET MANAGEMENT SOLUTIONS

FEATURES

- Ability to analyze accidents second by second
- Increased driver performance through accountability and productivity
- Increased driver safety through the monitoring of their driving habits
- Increased customer satisfaction by providing accurate service arrival times
- Increased ability to manage productivity through the use of management graphs
- Increased ability to efficiently dispatch your fleet through the use of landmarks and real-time positioning
- Increased fleet utilization by getting to more service stops per day
- Provides accurate data for customer billing
- Faster response time to customer service requests by knowing exactly where your vehicles are
- Reduced fuel, maintenance and overtime costs
- Reduced liability and insurance costs
- Reduced non-revenue driver time
- Reduced unauthorized use of vehicles
- Reduced theft of vehicles and inventory





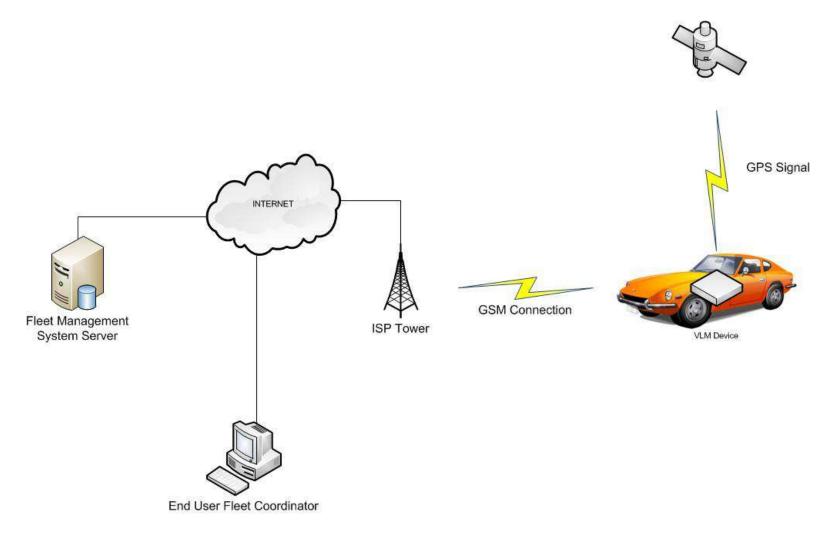






FLEET MANAGEMENT SOLUTIONS

SOLUTION COMMUNICATION & TECHNOLOGY



INFORMATIC

DIGITAL CONTROL SYSTEMS

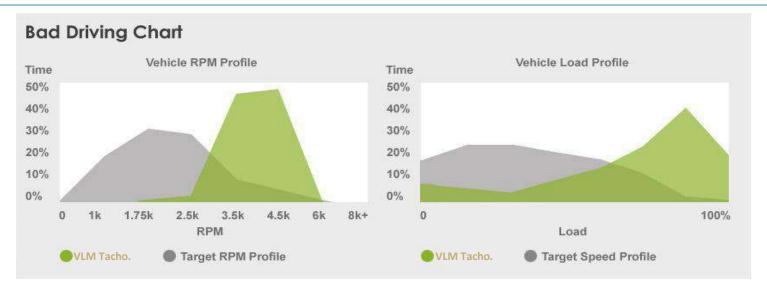
FLEET MANAGEMENT SOLUTIONS

CUSTOMIZABLE SOLUTIONS



FLEET MANAGEMENT SOLUTIONS

SAMPLE REPORT





FLEET MANAGEMENT SOLUTIONS

SAMPLE REPORT

Company

 Report Start:
 17-Mar-08

 Report End:
 23-Mar-08

Site	Vehicle	Event	Start Time	End Time	Max Speed	Max RPM	Max Accel	Max Decel			
	Toyota LC-SW-4WD - 0001	Ignition	17/03/08 09:41:39	17/03/08 09:47:53	0	275					
	Toyota LC-SW-4WD - 0001	RPM	17/03/08 09:41:47	17/03/08 09:47:54	0	950					
	Toyota LC-SW-4WD - 0001	Speed	17/03/08 09:41:52	17/03/08 09:47:54	2	700					
	Toyota LC-SW-4WD - 0001	Seatbelt	17/03/08 09:42:26	17/03/08 09:42:27	21	1125					
	Toyota LC-SW-4WD - 0001	Seatbelt	17/03/08 09:42:28	17/03/08 09:42:30	21	1175					
	Toyota LC-SW-4WD - 0001	Harsh Acc.	17/03/08 09:43:28	17/03/08 09:43:30	20	2225					
	Toyota LC-SW-4WD - 0001	Harsh Acc.	17/03/08 09:43:43	17/03/08 09:43:44	30	2975					













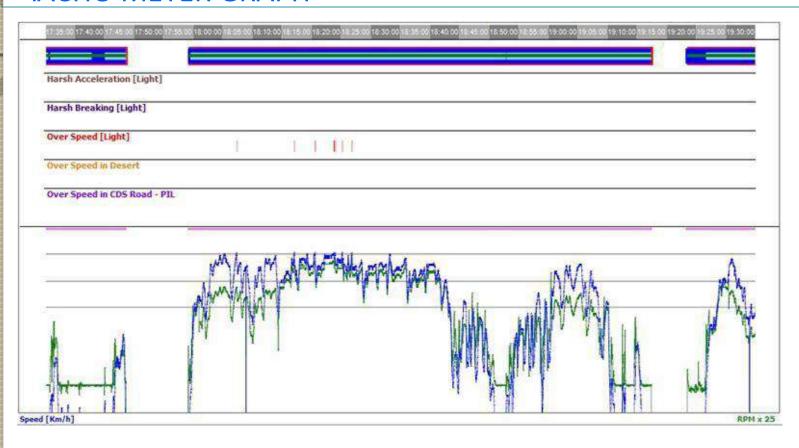






FLEET MANAGEMENT SOLUTIONS

TACHO METER GRAPH



Very high quality of vehicle monitoring and resolution for accidents and events' analysis