

FleetGen - *and the optional Tru-Batt™ technology!* Transportable Generator Management Solution

Ayantra - a leading developer of remote asset management products - has created a solution tailored for managing transportable generators.

The Challenge:

Generators must be monitored to ensure optimal performance. Portable generators are particularly difficult to monitor, since they are frequently moved. Key challenges include:

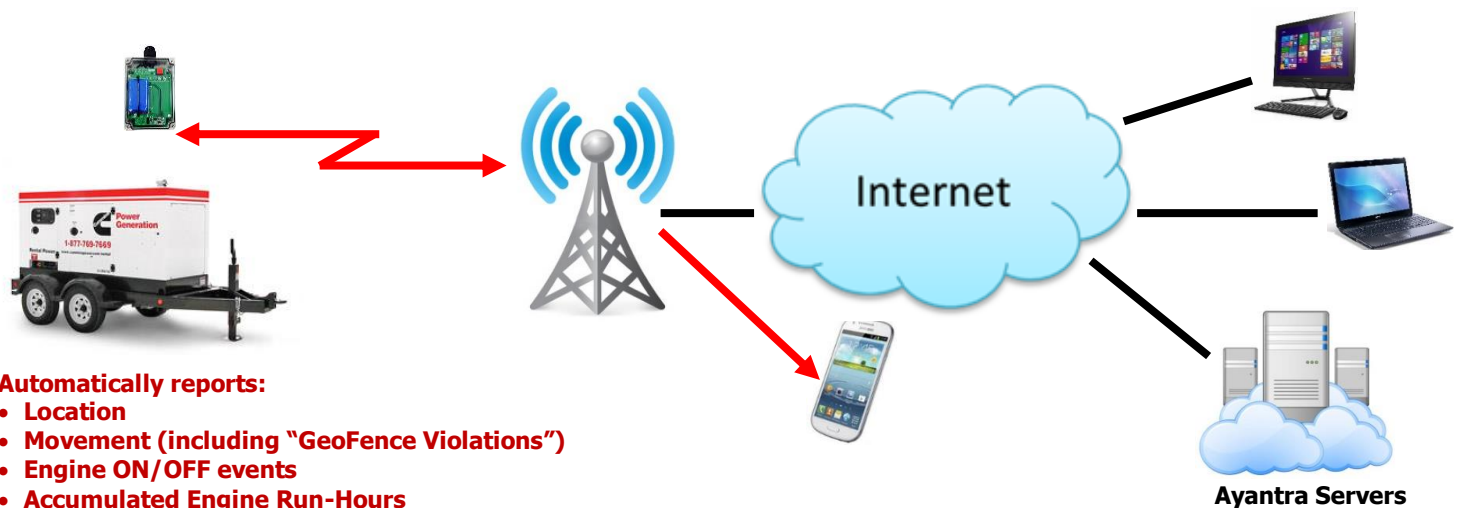
- Tracking each generator's Location
- Logging each generator's Engine Run-Hours to ensure timely maintenance services
- Detecting Faults to implement timely repairs
- Monitoring Battery Voltage Levels to ensure proper start capabilities
- Maintaining Usage Logs to satisfy regulatory agencies
(CARB, AQMD, and other agencies may require detailed reports of each machine's accumulated Engine Run-Hours and also its utilization by location)



Monitoring remote generators is a difficult task. Ayantra can help.

The Solution:




FleetGen is a web-based wireless monitoring solution for managing generators. FleetGen can manage any make or model of generator, and it easily supports hybrid fleets. ***With the average cost of a truck roll @ \$75 or more, remote generator monitoring starts to pay for itself right away.***



Automatically reports:

- Location
- Movement (including "GeoFence Violations")
- Engine ON/OFF events
- Accumulated Engine Run-Hours
- "Curfew Violations"
- Faults (optional)
- Battery Voltage Level
(optionally measured w/out assistance from the charger)
- "Service Due" reminders

The total solution consists of:

-  **An Ayantra monitoring unit** installed on the generator
-  **Ayantra-provided wireless messaging services**
-  **An Ayantra-provided website** to deliver information about each monitored generator

Ayantra, Inc. (510) 623-7526 www.ayantra.com

Note: this product incorporates unique Patented and Patent-Pending technologies developed by Ayantra
Specifications subject to change

GEN - ver 5.1 (Nov 2017)

FleetGen

Transportable Generator Management Solution

Key Features:

- CAPABLE OF SUPPORTING ANY MAKE OR MODEL OF GENERATOR**, including hybrid fleets
- AUTOMATICALLY REPORTS ESSENTIAL INFORMATION:** FleetGen automatically reports each generator's:
 - LOCATION**
 - ENGINE RUN-HOURS**
 - STATUS** (Running or Not Running)
 - FAULT STATUS** (Faults or No Faults)
 - BATTERY LEVEL**
(the optional Tru-Batt™ technology reports battery level without assistance from the battery charger)
- BATTERY REPORTS / BATTERY ALARMS:** Utilizing Ayantra's optional "Tru-Batt" technology, FleetGen reports the generator's true Battery Level (meaning the Battery Level is measured without assistance from the battery charger). FleetGen can also send real-time Alert Notifications if any battery or alternator problems occur.
- DAILY HEARTBEAT MESSAGES plus REAL-TIME UPDATES & ALERT NOTIFICATIONS:** Each FleetGen monitoring unit sends an automatic update each day (the "Heartbeat" message). The monitoring unit also reports Engine ON/OFF events as they occur, and it sends hourly updates while the engine is running. Each unit also includes six user-configurable digital inputs to report Fault events. Each Fault event can trigger real-time Alert Notifications sent as text messages and/or as email messages directed to specific recipients. Users can select which types of Faults to monitor. Typical examples include: **Common Alarm, Low Fuel, Low Coolant Level, High Coolant Temp, Low Oil Pressure, Overcrank.**
- SECURITY FEATURES - "GEOFENCE" and "CURFEW":** FleetGen can report if the generator is moved from its proper location, or if it is utilized during an improper time of day or night.
- ALARMS FOR BATTERY PROBLEMS AND/OR ALTERNATOR PROBLEMS:** FleetGen can send Alert Notifications if the battery goes low or is disconnected, or if the alternator is not performing properly.
- REMOTE ENERGIZE (optional):** Users can access the FleetGen website to remotely Start / Stop any monitored generator. The Remote Start/Stop operation can be performed manually or automatically on a schedule.
- MAINTENANCE REMINDERS:** FleetGen can send "Service Due" reminders as each machine approaches its service interval. Service intervals are user-configurable, and each reminder can be directed to specific recipients.
- REAL-TIME UPDATES:** Authorized users can collect up-to-the minute updates from any machine, at any time
- AQMD REPORTS:** FleetGen provides utilization reports to comply with California AQMD reporting requirements (similar reporting capabilities are available for other states).
- DATA EXPORT:** The database information can be exported upon demand.

Hardware Specifications:

❖ Physical:	5.00" x 3.50" x 1.55"
❖ Power:	8 - 32 volts DC
❖ Power Draw:	
Active:	65 mA (typ) @ 12V
PowerSave:	40 mA (typ) @ 12V
❖ Built-in back-up battery	
❖ Environment:	
Monitoring unit - Operating:	-32°C → +60°C
Monitoring unit - Storage:	-45°C → +85°C
❖ Humidity:	0 - 95 RH @ 40C
❖ I/O Ports:	
Input Ports:	7 Inputs (6 user-configurable)
Output Ports:	2 Outputs (1 user-configurable)



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