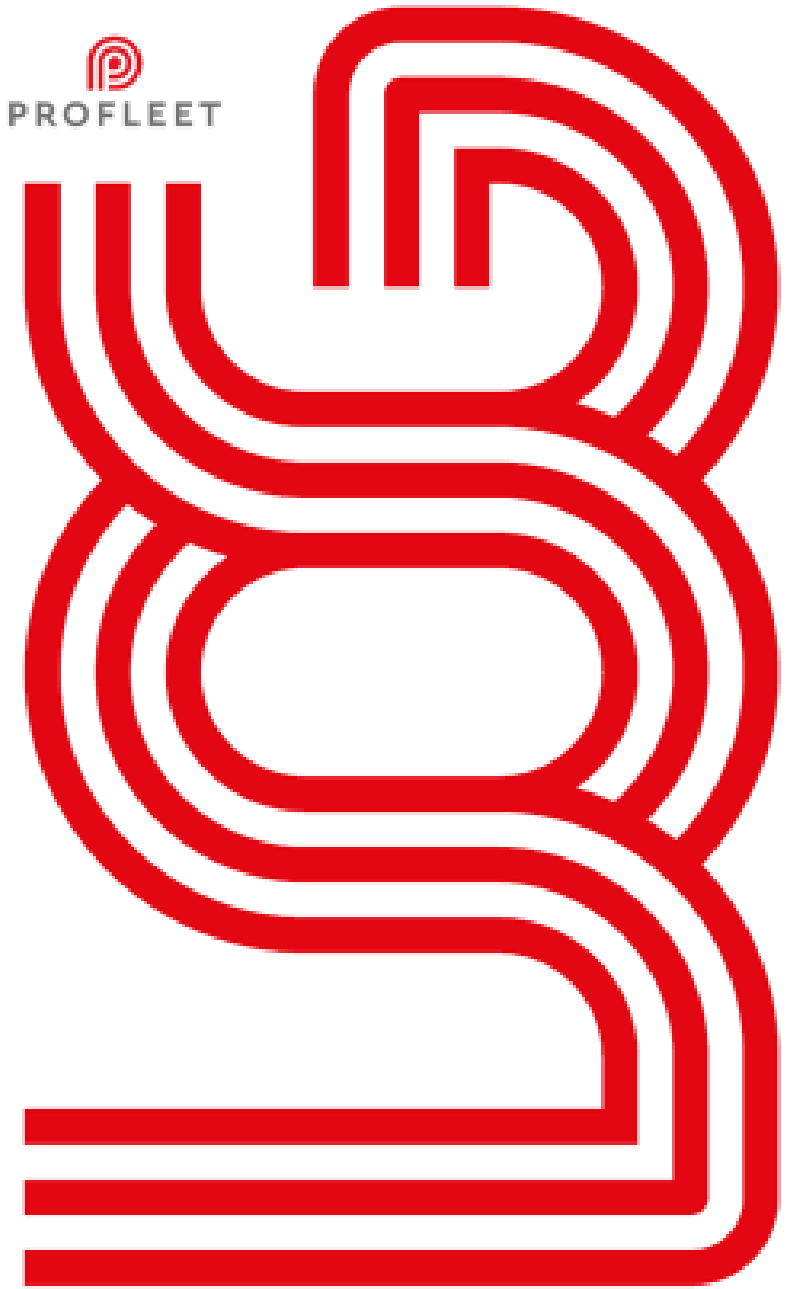






  
PROFLEET



# LOGmaster smarter depot control

A **TSG** brand

# 1 - LOGmaster concept

**LOGmaster is a platform for all depot equipment**








- One tool for follow-up of events & alarms
  - One identifier for various applications
  - One database to manage
  - One software for reports and analysis
- Improve daily efficiency, reduce time loss



# 2 - LOGmaster dashboard



The screenshot displays the PROFLEET LOGmaster dashboard. On the left is a dark sidebar with the PROFLEET logo and a navigation menu including: Site 1, Site, Field, PROFLEET, Installation / Maintenance, Administrative, Operating management, and Site operating. The main area features an aerial map titled 'New Map (102)' with several status icons overlaid: a green circle with a white '1', a red circle with a white '1', a yellow circle with a white '1', and a green circle with a white '5'. Below the map is an 'Alert List' section with four alert cards:

 Diesel Tank	 Pending for 5 days	 Tank water level critical Call maintenance to fix	 AdBlue Tank	 Pending for 2 days	 Tank low level warning Tank have to be supplied according to administrator procedure	 Oil #1 Garage
--	---	---	--	---	--	--

## Visual dashboard for monitoring

- Embedded in the web interface
- Overview map with status alerts
- Alert pane with short descriptions
- Create map according to needs
- Cover a site / region / country

# Introduction

TSG Fleet is the world's largest provider of Fleet & Fuel Management solutions.

Our offer consists of four core elements:

- Dispensers
- Systems
- Service
- Project Management

## PUBLIC STATIONS



## PRIVATE STATIONS OR DEPOTS



# Introduction

## RETAIL

123.000 sites and 1000+ customers



Core = selling fuel



Public stations

Open to all  
User = customer

Selling of fuel



Payment required!

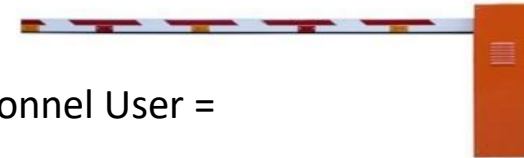
## COMMERCIAL FLEET

300.000 sites and >10.000 customers



Core = logistics

Private stations



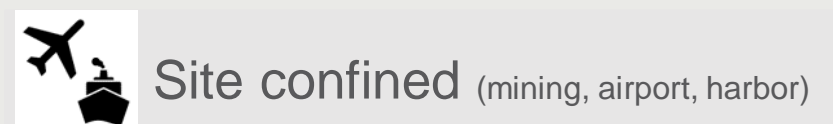
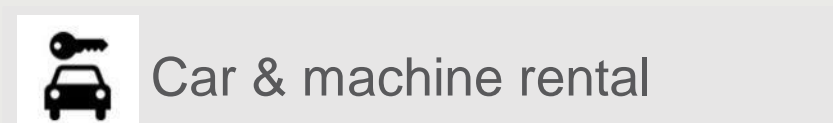
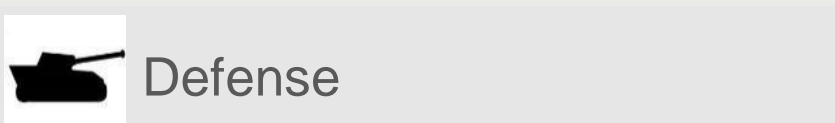
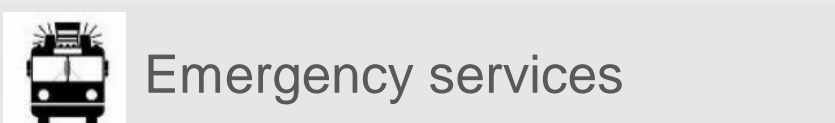
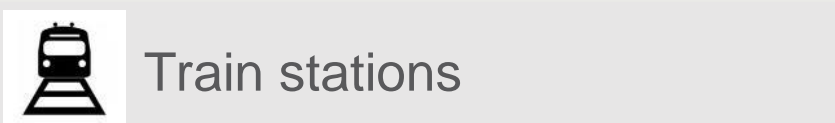
Authorized personnel User =  
employee



Fuel 'made available'

Only ID required

# Introduction



# Product Portfolio

TSG supplies a complete range of solutions to operate a fleet of commercial vehicles; a true one stop shop.



QFS DiaLOG Fuel dispensers



DiaLOG Fuel management system



ProGauge Level gauges



RFID Tags



Smart Fuel Automatic vehicle identification





# DiaLOG

- DiaLOG is a system used to
  - a) identify vehicles and drivers of a commercial fleet
  - b) control fuel dispensers and peripherals and
  - c) register and report the fuel transactions
- DiaLOG includes management software to monitor and control vehicle consumption
- DiaLOG is a FUEL management system, not a FLEET management system
  - *Larger customers might import the fuel data in their fleet management system where all cost is tracked (e.g. tyres, service)*



# Fleet Dispensers & Fuel Management Systems

## *Serving Commercial Fleet Operators of All Size*

- TSG Fleet provides a dedicated set of products and services to the commercial fleet industry
- We supply to all sizes of operation, from small transport companies with a single site to large transport multinationals operating a wide network of sites
- TSG is uniquely positioned to respond to depot manager needs relating to the monitoring of liquids commonly used at depots, such as fuel, AdBlue and oil

- Our partners:



Fuel Management System



Fleet Dispensers



Fuel Management



Vehicle Identification



ATG Console

# DiaLOG: FMS Integrated Pumps – Single / Double nozzle and Dialog Wallbox

FMS WALLBOX



Logmaster Terminal



QFS Suction Pumps with Integrated DiaLOG  
80Lpm or 120Lpm



# 3 - LOGmaster terminal

## High-end terminal

- Modern, yet solid housing
- Performant hardware inside
- Secure integrated tag reader
- Mid section for extra options

## Integrated printer



## Barcode reader



## Touchscreen

- Interactive display
- Optimum height + tilted
- Rigid, industrial quality
- Content depending type
- On-site communication



## Available readers

DesFire secured (new),  
MiFare, Legic, 125 khz,...



# DiaLOG FMS Connected to Tokheim Pumps



- We install a DiaLOG FMS WALLBOX

We integrate with:

- IFSF Protocol board
- IFSF Comms Board
- IFSF Board in the existing dispenser
  - *To get the pulses*
  - *To get the nozzle contact*
  - *To switch the motor on/off*
- We communicate over RS485
- One set of boards required per pump



# LogMaster FMS Connected to 3<sup>rd</sup> Party Dispenser non Tokheim type



- We install a DiaLOG LogMaster FMS

We integrate a “Distribution kit” in the existing dispenser

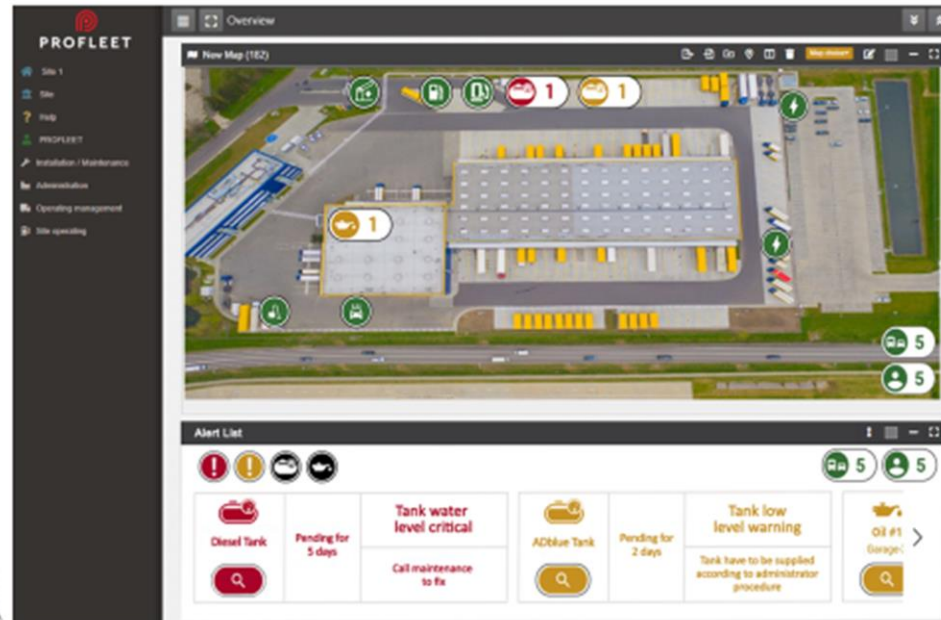
- *To get the pulses from pulsar*
- *To get the nozzle contact*
- *To switch the motor on/off*
- We communicate over RS485
- One Dia-Dis kit per nozzle required!



# DiaLOG: Key Functions

- Vehicle and driver control
- Tag for vehicle identification
- Pin code for driver identification
- Scanner option for vehicle license disk
- Operator tag/pin identification
- AVI Smart Fuel Passive Ring tag identification
- Fuel consumption tracking reports
- Stock management reports
- Level gauge connection / reports
- Kilometers + hours counting capture
- Automatic reporting to office
- E-mail alerts
- Export of reports and data
- Terminal messages
- Period or geographical limits
- Quotas
- Import external transaction
- Preventative maintenance

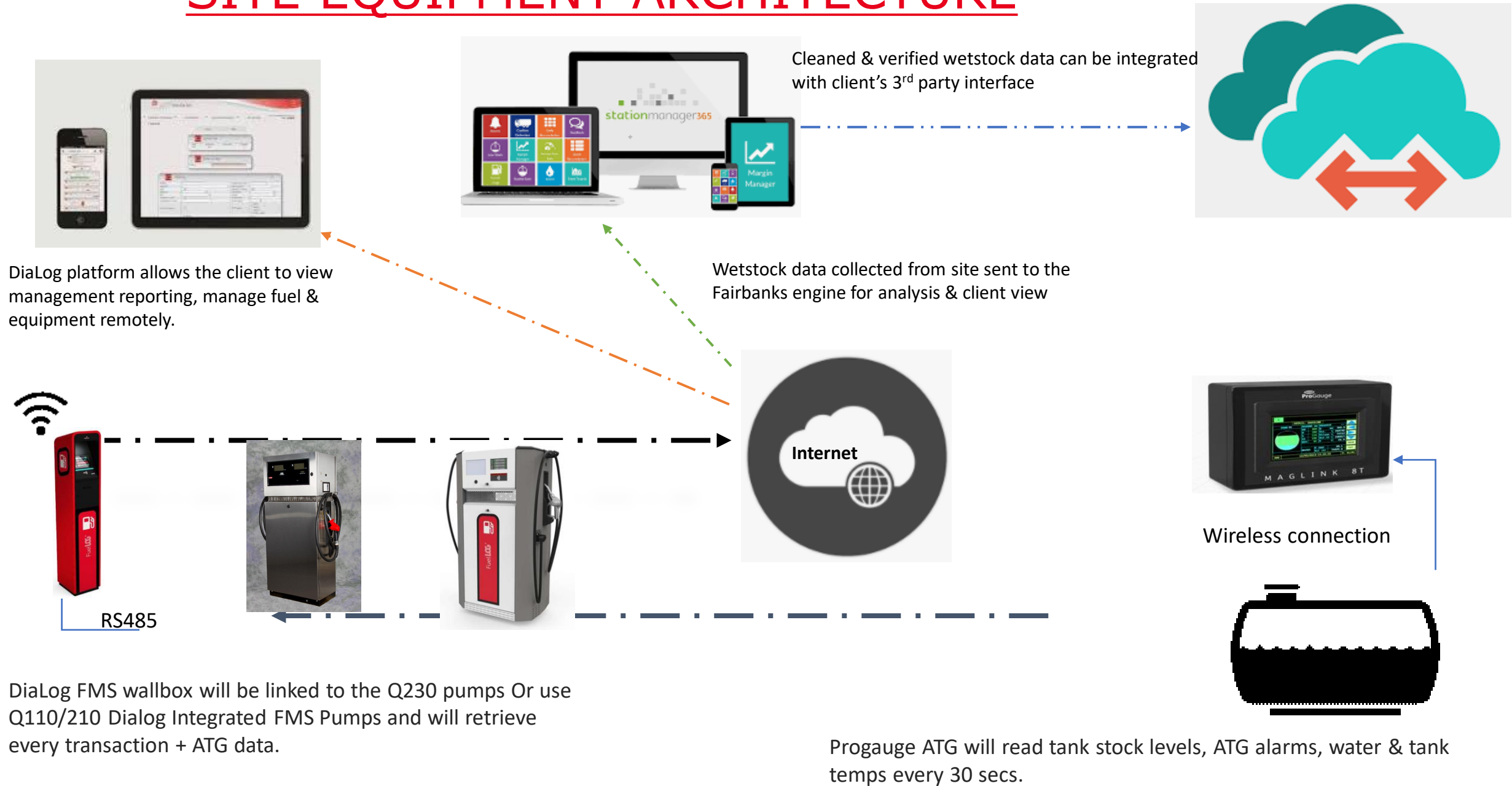
## 2 - LOGmaster dashboard



### Visual dashboard for monitoring

- Embedded in the web interface
- Overview map with status alerts
- Alert pane with short descriptions
- Create map according to needs
- Cover a site / region / country

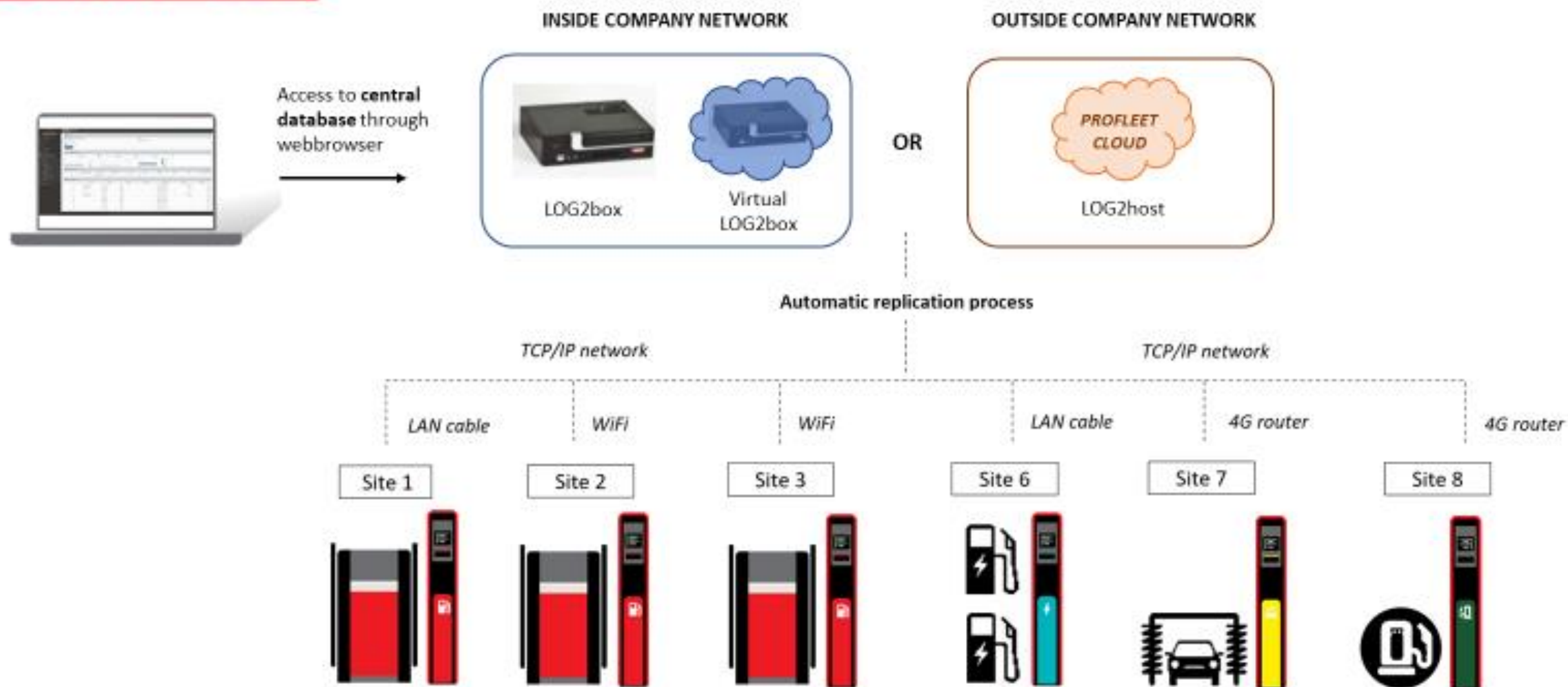
# SITE EQUIPMENT ARCHITECTURE





# 5 - LOGmaster system

## multi-site

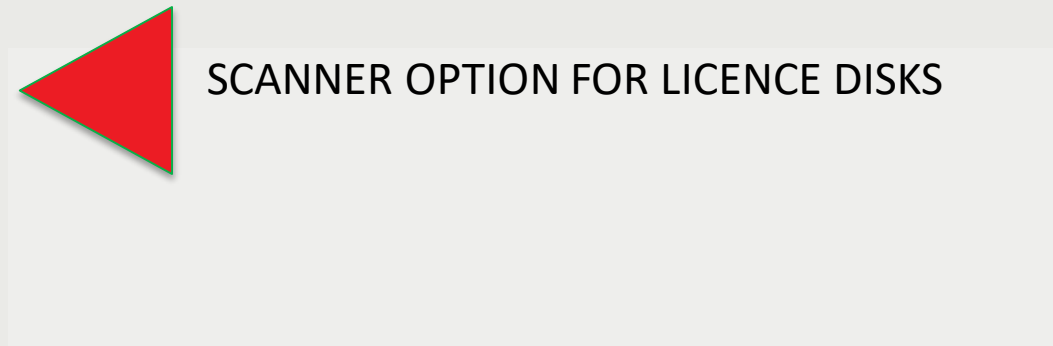


How do we identify vehicles and/or their drivers?

# DiaLOG: Pump Authorization

OPTION 1: Using RFID Tags or Scanner options

OPTION 2 : Scanner – Vehicle Licences



# DiaLOG: Pump Authorization

## OPTION 3: Using SmartFuel for Home Base Sites

- SmartFuel is an automatic Vehicle Identification System (VIS)
- It can recognize a vehicle and/or driver without passing an id
- Optionally, Smart Fuel can also automatically get the mileage of the vehicle without user intervention
- SmartFuel comes as a peripheral to DiaLOG and needs to be connected to DiaLOG to work
- Vehicles not equipped with the SmartFuel system can be identified with RFID tags, the user can also still key in the mileage



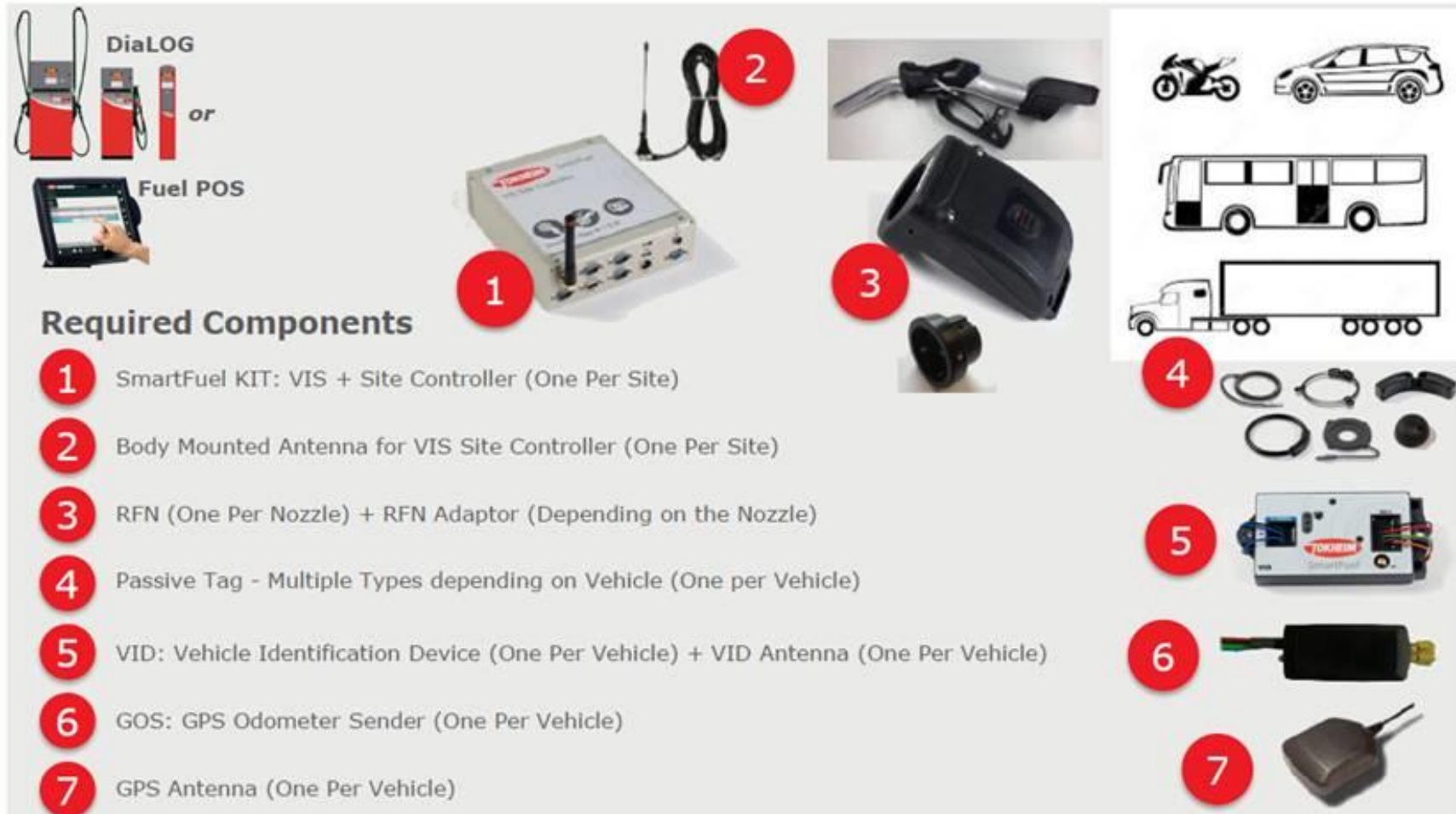
# DiaLOG: Pump Authorization

## OPTION 2: Using SmartFuel for Home Base Sites

- Eliminates fraud
- Requires “the right amount of the right type of fuel in the right tank”
- Reduces cash and paper handling
- Eliminates fuel theft by station attendants or customers
- Eliminates the problem of stolen cards or coupons and respective losses
- Platform to build customer loyalty by signing long-term contracts



# Automatic Vehicle Identification



**Required Components**

- 1 SmartFuel KIT: VIS + Site Controller (One Per Site)
- 2 Body Mounted Antenna for VIS Site Controller (One Per Site)
- 3 RFN (One Per Nozzle) + RFN Adaptor (Depending on the Nozzle)
- 4 Passive Tag - Multiple Types depending on Vehicle (One per Vehicle)
- 5 VID: Vehicle Identification Device (One Per Vehicle) + VID Antenna (One Per Vehicle)
- 6 GOS: GPS Odometer Sender (One Per Vehicle)
- 7 GPS Antenna (One Per Vehicle)

# Automatic Vehicle Identification Equipment



Antenna

Electronics + Battery



Metal Pipe with Cabling

## Automatic Vehicle Identification: Passive Tags

- Universal 'half-moon' tag
- Generic tag for all applications, one fits all
- Multiple vehicle types catered for
- Secure with break point
- Online Tag Recognition (OTR); simply program the tag serial number in DiaLOG like the standard tag



# Automatic Vehicle Identification: Passive Tags





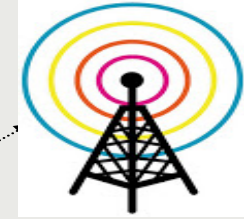
# Typical Installation with QFS DiaLOG Integrated FMS Pump



PUMP 1 on  
internal  
DIA-DIS  
Board



**SITE 1.**  
Q110 Pump with  
Dialog Integrated



Int IP  
192.....

SIM CARD  
Ext IP  
192.....

**DIALOG SETTINGS**  
Int IP 192.168.127.15  
GATEWAY: 192.168.....  
HOST IP: 192.168.5.....  
**SITE 3**  
**TERMINAL 1**

220 V AC

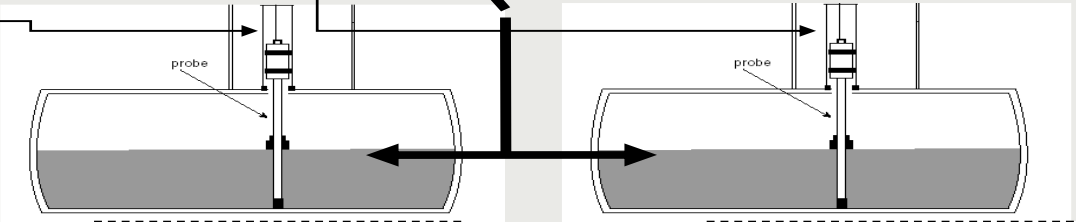
RS 485 Comms  
Cable



**ATG CONSOLE SETTINGS**  
TANK 1 = 46000L  
TANK 2 = 23000L  
PROBE 1 S/N ???????  
PROBE 2 S/N ???????  
STRAPPING TABLE = 30



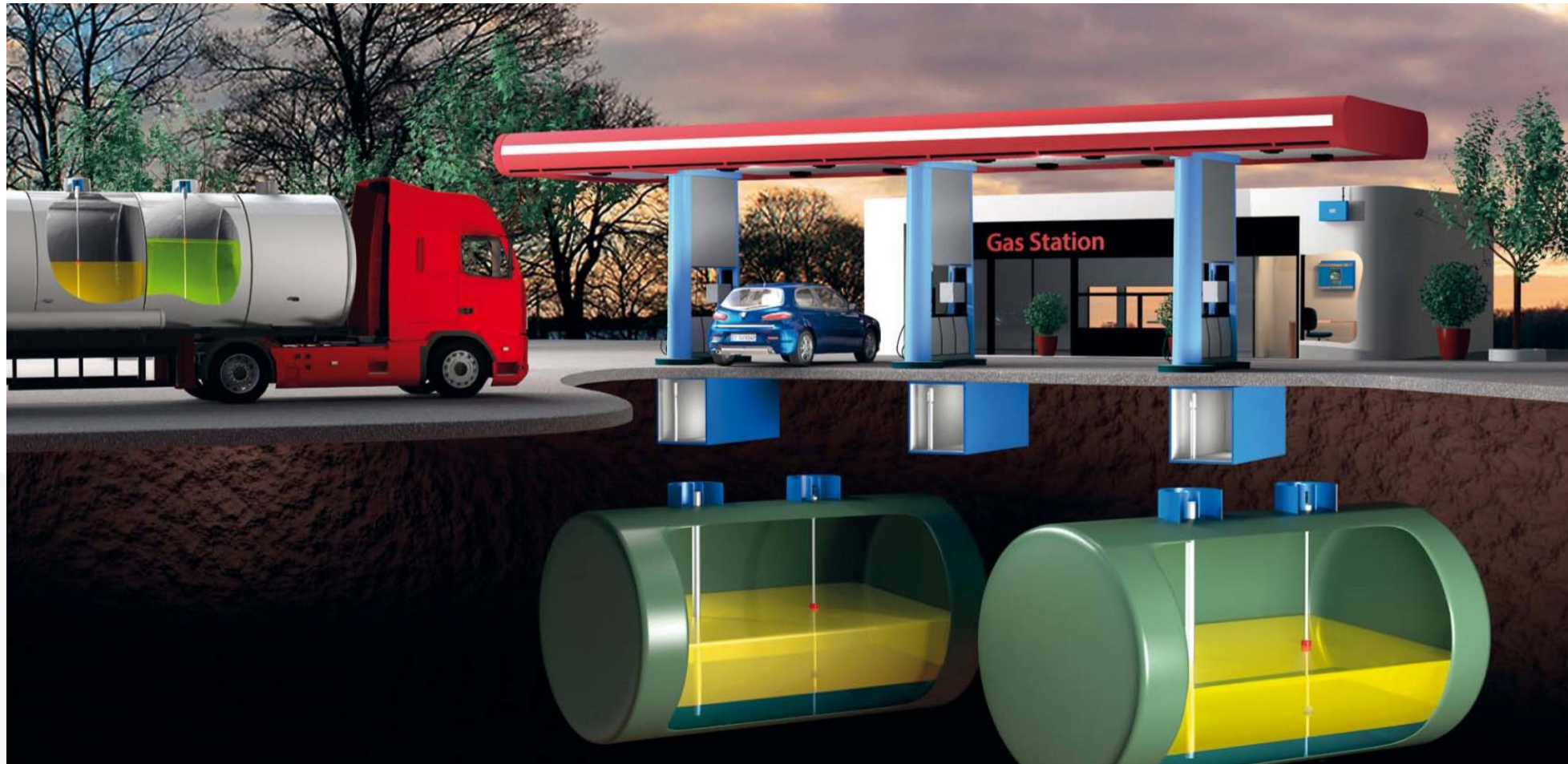
220 V AC



# Tokheim PRO GAUGE – Wired / Wireless Automatic Tank Gauge



Fuel and Water Level Monitoring



## Wired Probe XMT-SI

### XMT probe Technical Specification

- Rigid and robust Stainless Steel shaft and enclosure IP68
- It fits in a 2" riser - Rugged 7/8" circular connector
- Available from Range 500mm - 5000 mm
- Suitable for all fuel types including LPG + AdBlue
- RS 485 serial port communication
- Remote configuration and diagnostic
- Standard measuring accuracy: +/- 0,25 mm.
- Standard resolution: +/- 0,01 mm.
- Temperature accuracy range -20 +70 °C: +/- 0,2 °C.
- Temperature resolution:  $\pm 0,0625$  °C.
- Available with Logger Option ( Battery Backup)



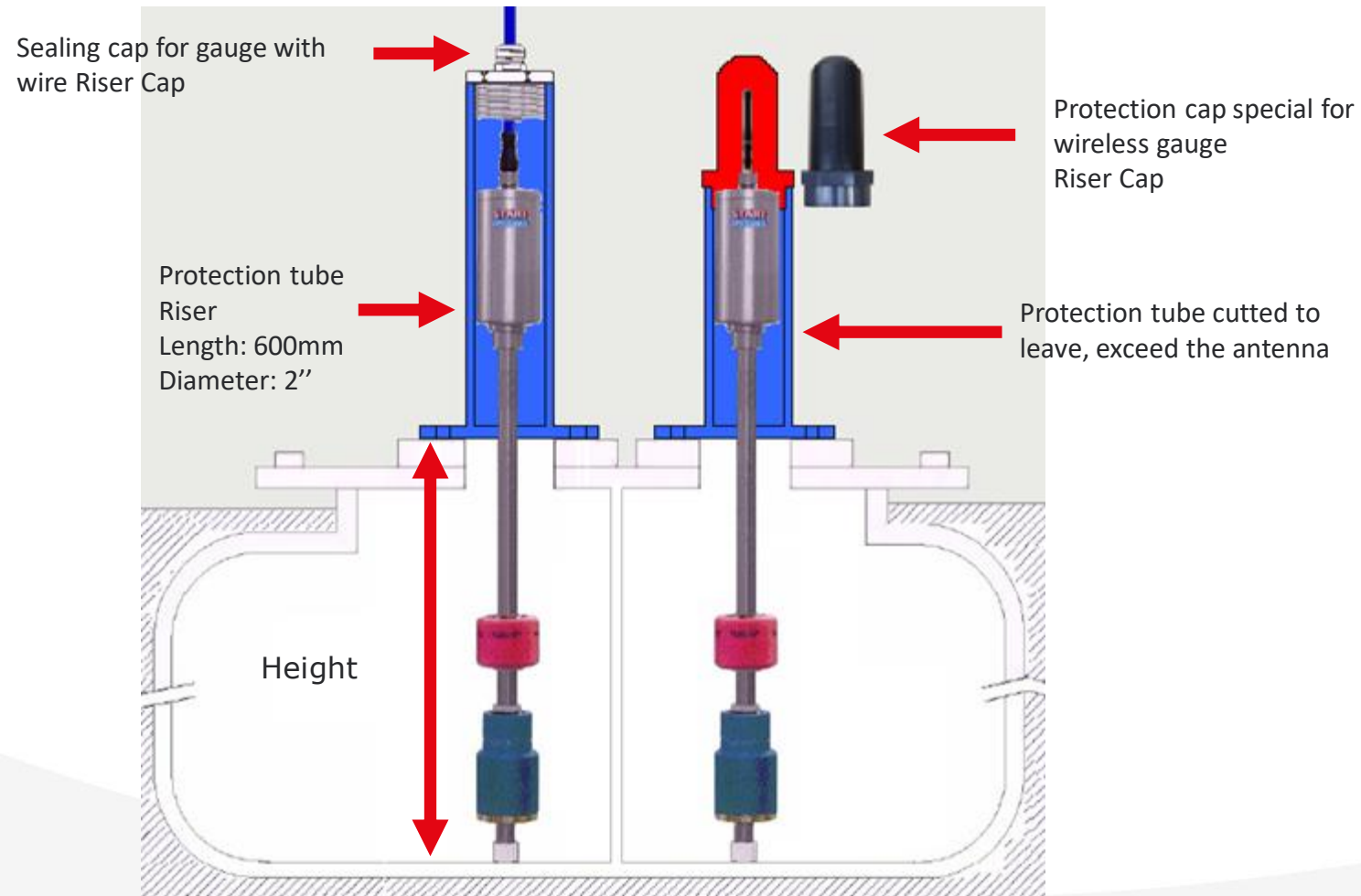
## Wireless Probe XMT-SI RF

Same spec as XMT-SI but Wireless

- 169 MHZ technology key factor
- Average battery life 3/5 years
- Long distance transmission also from the underground
- More permeability against obstacles
- Dedicated bandwidth for metering and telemetry
- Free bandwidth not used by consumer technologies



# The Gauges: Wired and Wireless



# ProGauge Maglink LX



- Linux Operating System
- Remote Web access and WI-FI enabled
- Colour resistive touch-screen TFT 7" display
- Manages up to 16 tanks, 6 on-off sensors, 4 relays
- Event recording via micro-SD card
- Safe and easy programming via web based interface
- Communication Protocols including: Tokheim, Gilbarco, Dresser Wayne, Retalix, Orpak, DOMS
- Third party probes connection
- Leak detection, deliveries, trends, historical events / alarms recording



# ProGauge Maglink LX

## Direct Connection

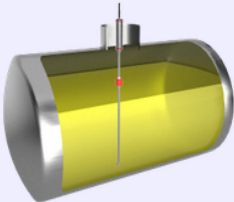
- Web Server on Board
- No software required
- Remote ATG management and stock confirmation
- Standard internet connection required



**CURRENT STATUS - (Admin user) [09/03/2015 17.04.45]**

**Tank** All tanks 1 2 3 4

---



**09/03/2015 17.04.17**

**Tank 1**

Product height  mm

Volume  liters

Volume comp. 15°C  liters

Ullage 95%  liters

Water  mm

Water volume  liters

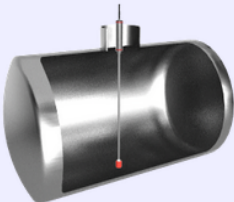
Temperature  °C

**Weight**

**Density**

**Status OK**

---



**09/03/2015 17.04.17**

**Tank 2**

Product height  mm

Volume  liters

Volume comp. 15°C  liters

Ullage 95%  liters

Water  mm

Water volume  liters

Temperature  °C

**Weight**

**Density**

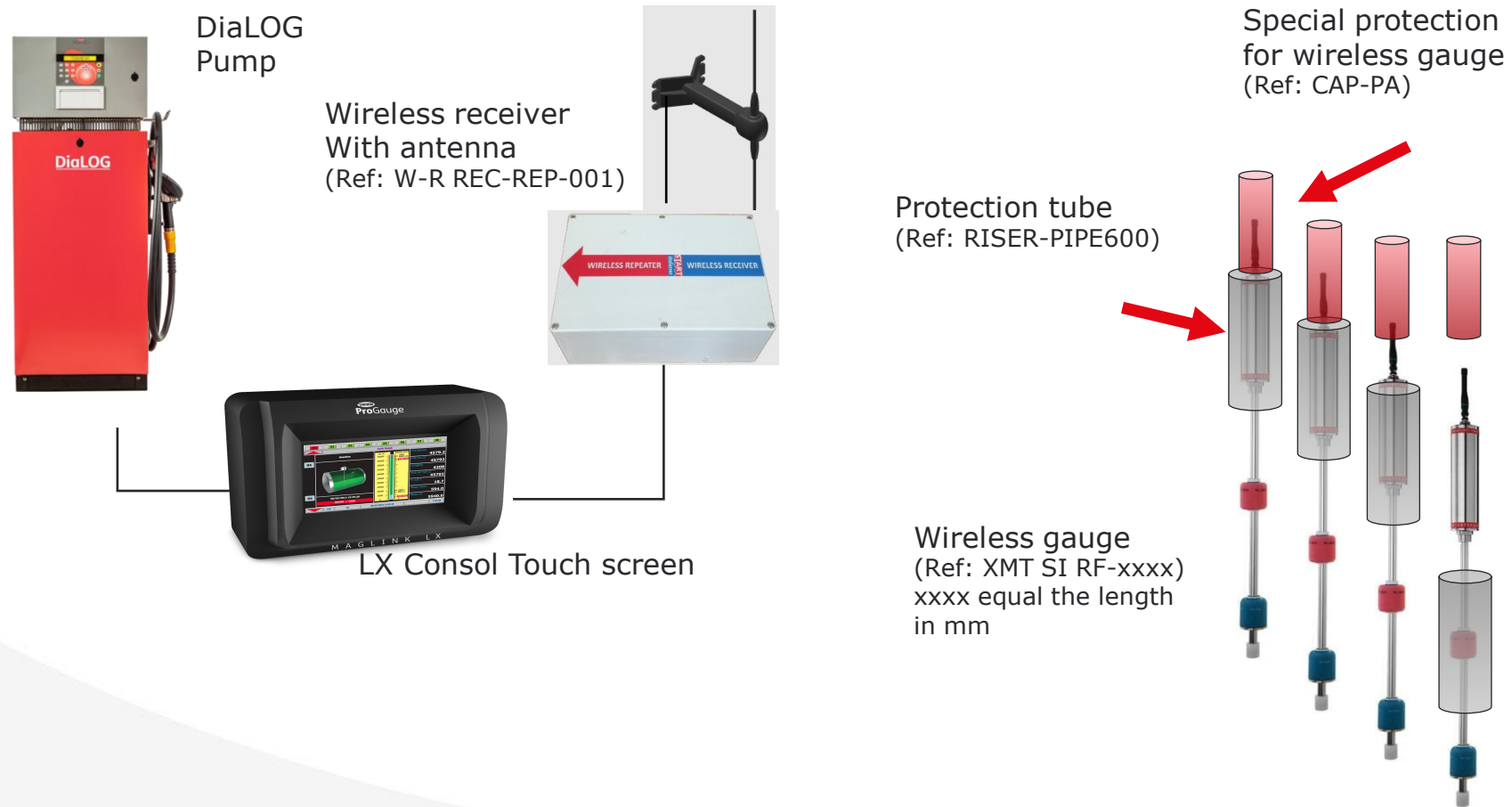
**NO LINK**

# Why ProGauge?

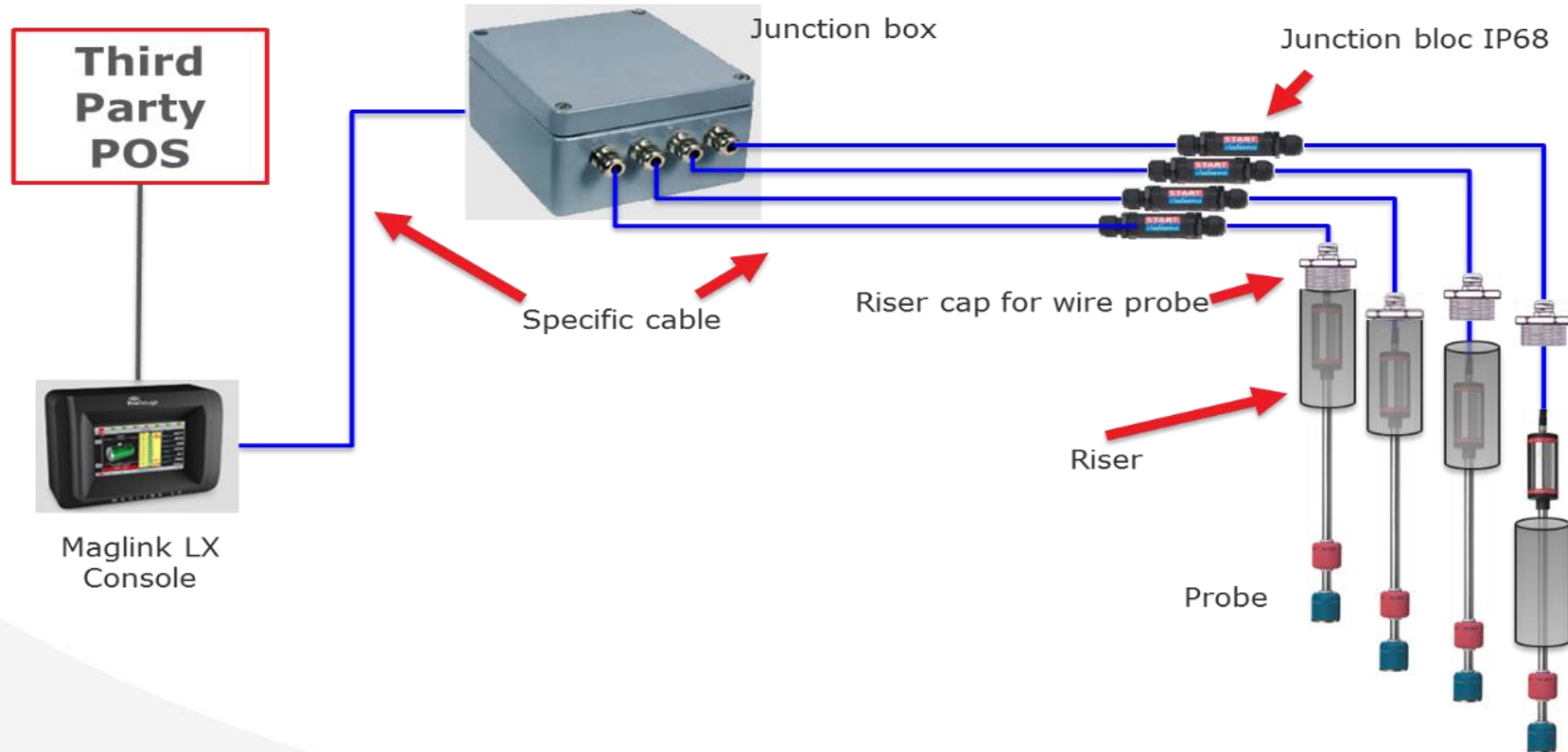
- 1) You will **reduce your stock loss** and **improve your business profitability**
  - You will know how much fuel has been really delivered into your tanks
  - You will know how much fuel has been sold through your dispensers
  - You will know the effect of temperature variation on your stock
  - You will be able to see the real stock variance and take effective actions
- 2) You will **comply** with **local fiscal** and **environmental** legislations
- 3) You will enjoy all the benefits, **without bearing the cost of civil works** on your site, with wireless probes
- 4) You will access all your data wherever you want, whenever you need, with our **new web-enabled** console
- 5) You will improve your **logistics** effectiveness, and reduce your transport costs
  - You will know how much fuel is in your tanks, in real time
  - You will be able to move from “pull” to “push” deliveries
  - You can better plan your deliveries reducing the number of trucks
  - You will reduce “run-outs” and “haul-backs” due to poor ordering practices
  - You will eliminate human intervention
- 6) You will **reduce your environmental risk**, you will detect your leaks before it is too late
  - You will reduce remediation cost
  - You will reduce the risk of bad reputation for your Company



# Linking DiaLOG Q110 Pump with Wireless ProGauge Probes and MagLink LX Console



# Linking Wired ProGauge Probes and MagLink LX Console



# Wireless Probe Installation



