Feb, 2019

Dover FS
ATG Product Presentation
Serial Interface update

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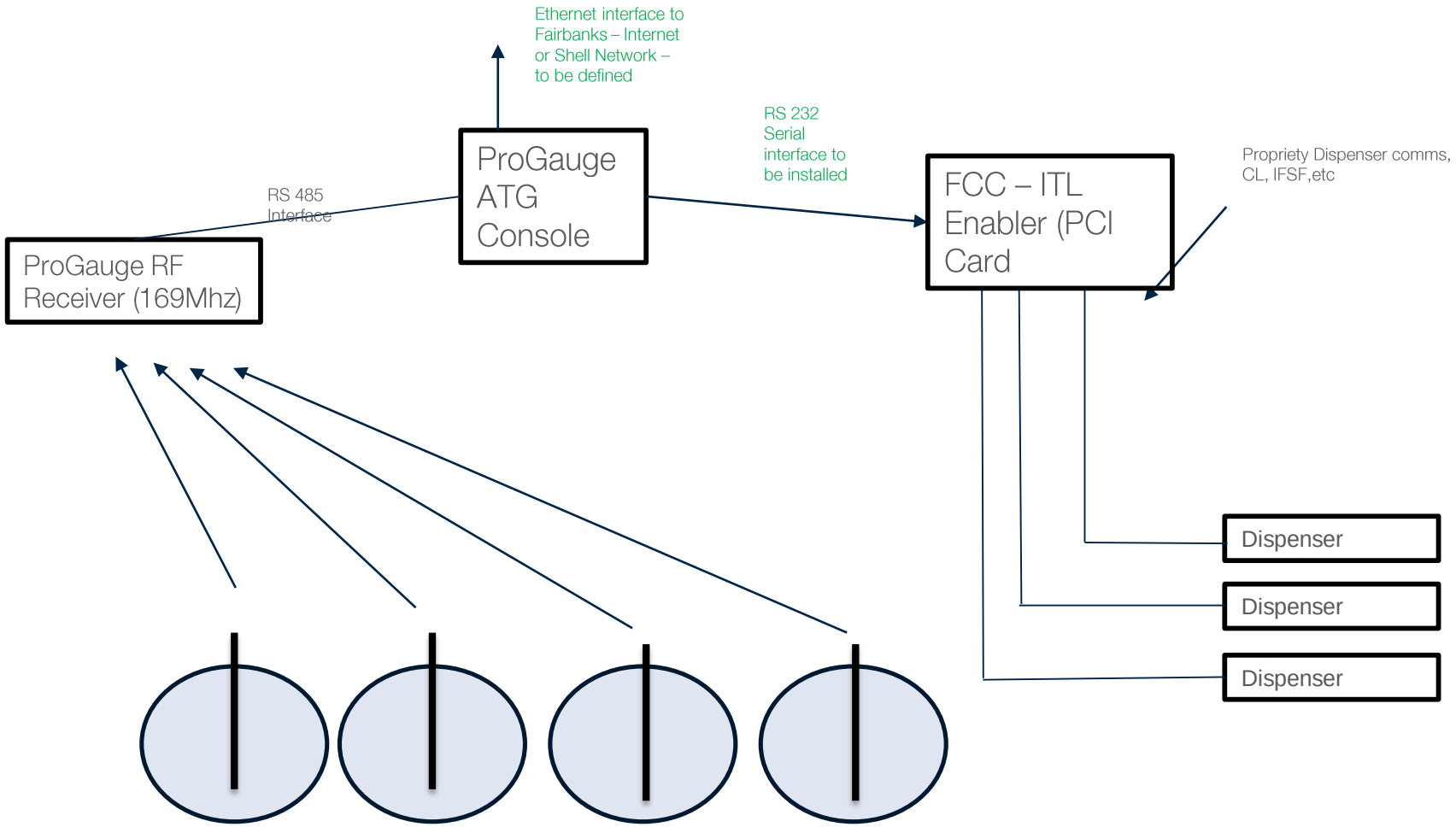
DOVER®
FUELING SOLUTIONS

MagLink LX Interface to the ITL Enabler

- Scope:
  - As part of the ATG program Shell Asia are installing the MagLink LX from Dover Fueling solutions
  - As part of the deployment we need to connect the MagLink LX console to the locally supplied and installed ITL Enabler FCC
  - The interface from the ATG Console (MagLink-LX)is via a serial cable
  - This document details the connection and configuration for both devices as tested in the Shell Test environment located in the Philippines
  - Please note the ITL Enabler is part of the Shell POS system , please make sure you have contacted the relevant Shell company before attempting or modifying any connections

  - The ITL Enabler is not part of the ATG solution

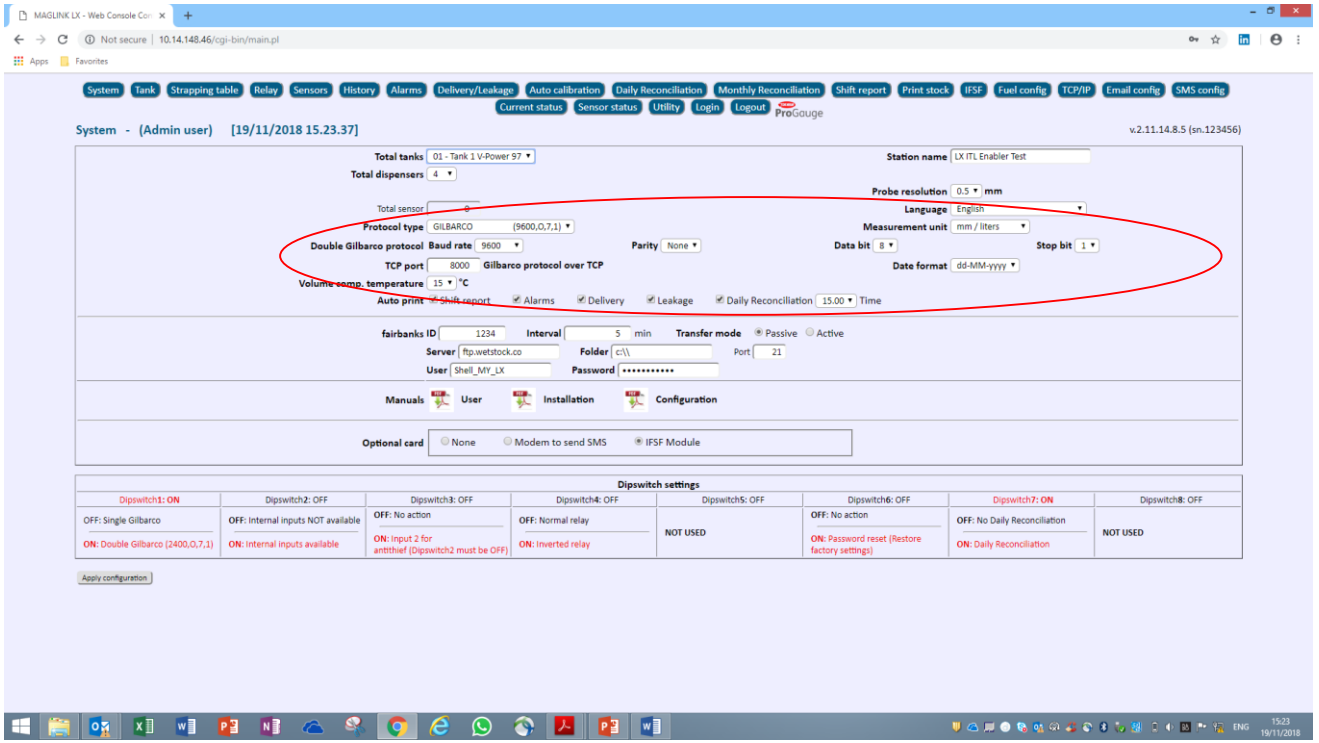
Site Overview



Wireless probes communicate to the RF receiver using 169 Mhz – the probe broadcasts, the Receiver is in listening mode

Configuring the MagLink LX ATG Console

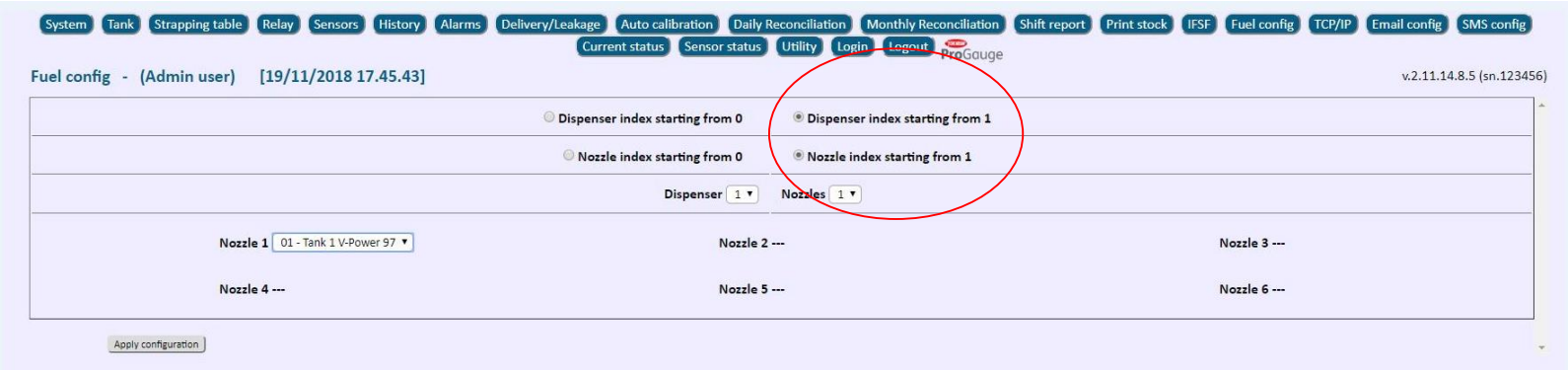
- Select the Gilbarco interface as per the example below
- Serial interface should be configured for Com 1
- Baud rate :9600
- Parity: None
- Date Bits :8
- Stop Bit : 1



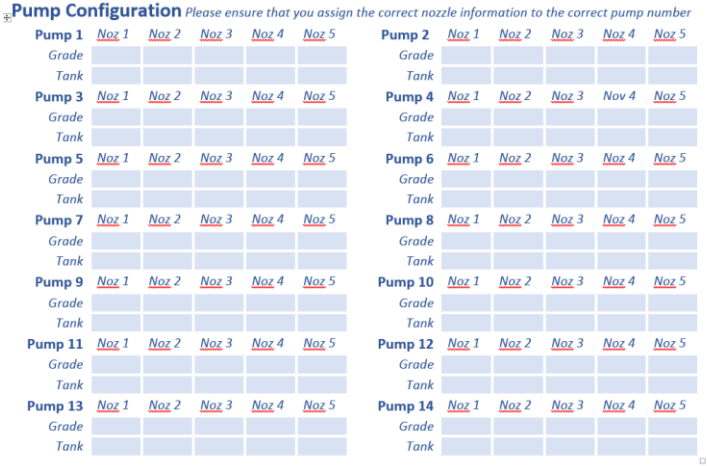
- Note – when using the ITL Enabler Com 2 can be used for the local serial printer

MagLink LX - Dispenser/ Forecourt mapping

- As per the example below ,Tatsuno dispenser numbers and indexes start at 1 (Red Circle)
- Configure the forecourt ,mapping to match the physical Dispenser/Nozzle Tank mapping

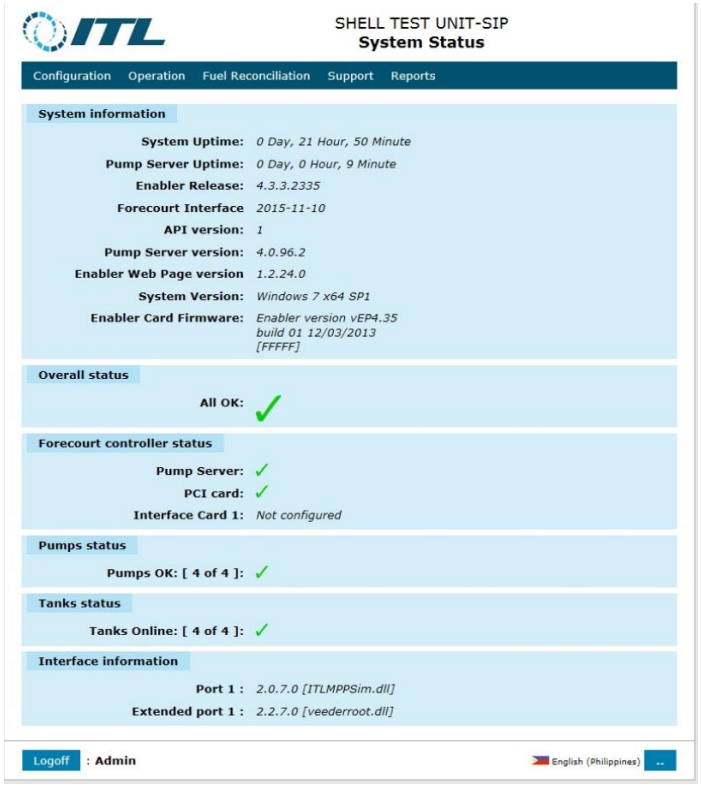


- This forecourt information can be extracted from the site survey



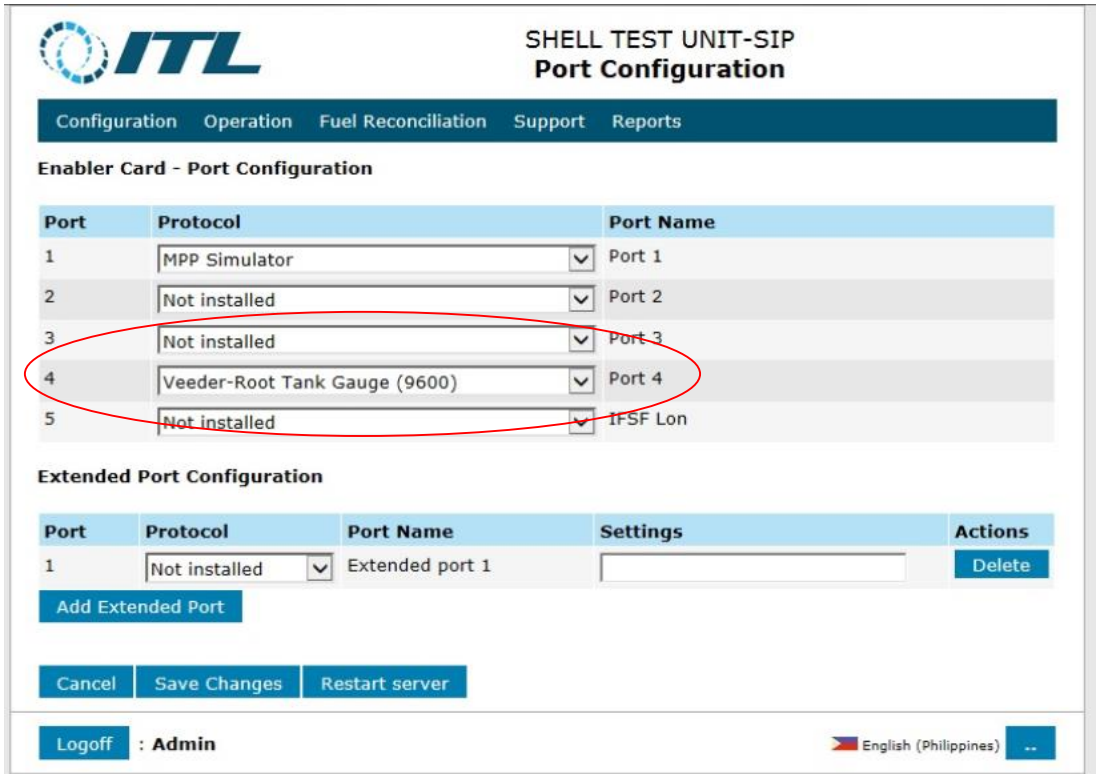
ITL Enabler PCI Interface - FCC

- The ITL Enabler card in installed inside the POS or a PC on site
- The ITL Enabler is the FCC (Forecourt Controller) supporting the dispenser interface and the POS
- The ITL Enabler supports a serial connection to the ATG console

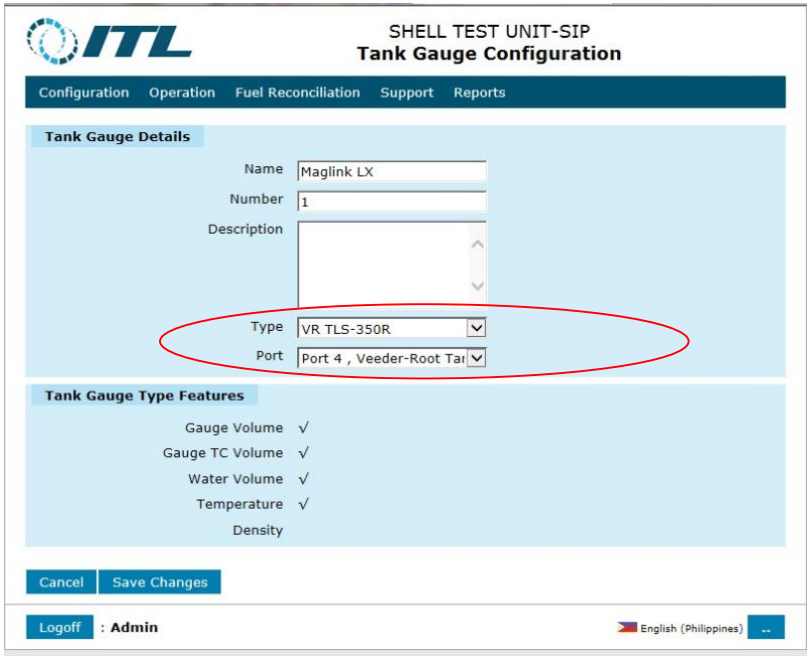


ITL Enabler Configuration

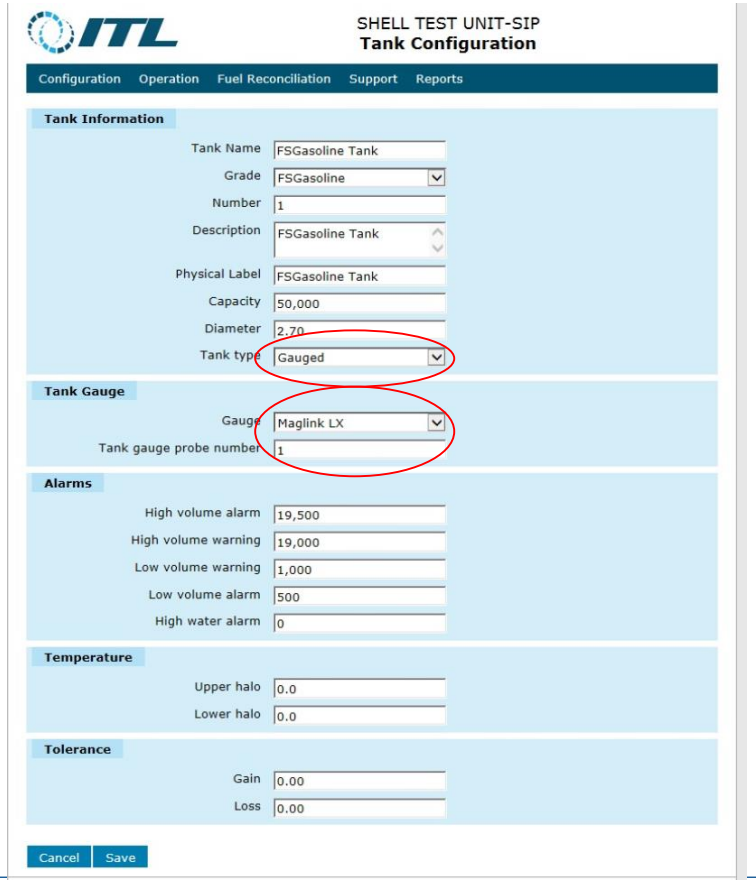
- Follow the steps below to configure the ITL Enabler card, confirm user names and passwords with the local IT contractor
- Locate the Web application to start the Enabler program
- The first step is to configure the ATG Port, the Veeder Root serial interface should be selected
- Note , you need to restart the server once the gauge has been selected



ITL Enabler Configuration



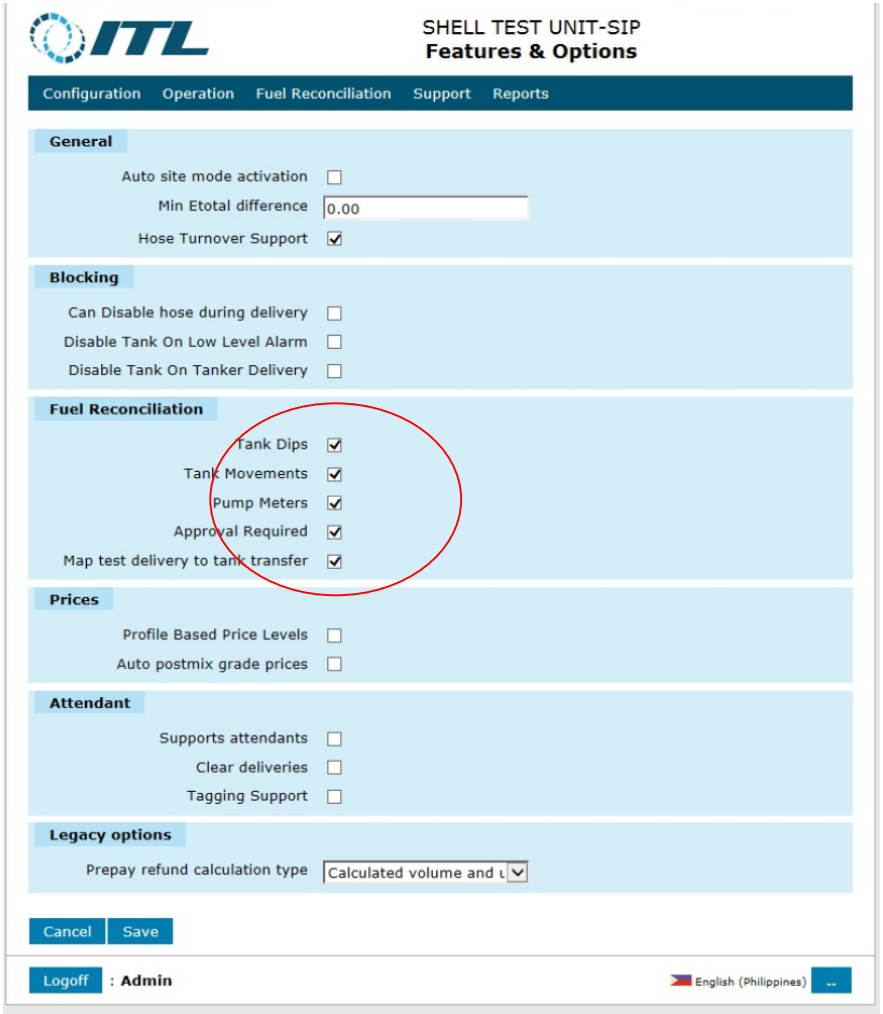
- Add the ATG model and port number



- Configure the tanks making sure to enable the tank gauge option and tank probe number (this should be the same as the tank number)

ITL Enabler Configuration

- In the features and options page make sure the options marked with the red cirlcle have been selected.



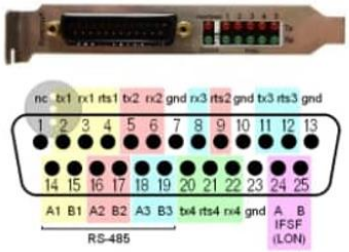
ITL Enabler Configuration

- Cable configuration , the ITL Enabler cards uses a 25 pin connecter to interface to the forecourt device's , port 4 (RS232 only) should be used for the ATG

Maglink LX		ITL Enabler	
DB 9		DB 25	
RX	Pin 2	TX	20
TX	Pin 3	RX	22
Gnd	Pin 5	Gnd	7

ENABLER CARD DB25 PINOUTS

The following diagram shows the connections on the Enabler Card DB25 connector. See also: Enabler LEDs



Abbreviations used

GND Ground
TX RS-232 Transmit
RX RS-232 Receive
RTS Request to Send
nc No Connection

For one port, you can only use **either** RS-485 **or** RS-232 connection, not both.

This diagram is looking at the Enabler card socket, or at the back of a DB25 plug. Colour coding for the physical ports:

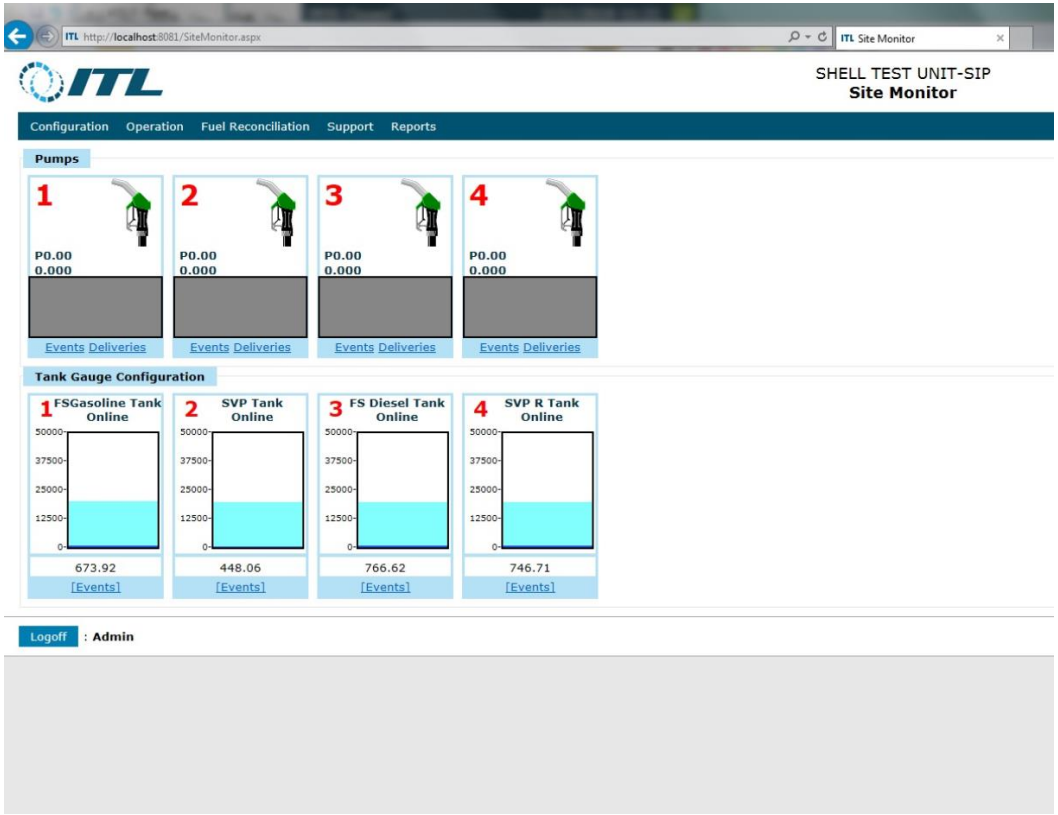
Color	Port	Description
	Port 1	RS-232 or RS-485
	Port 2	RS-232 or RS-485
	Port 3	RS-232 or RS-485
	Port 4	RS-232 only
	Port 5	LON for IFSF

Except for the passive (RS-485/IFSF), FDMs are always connected to the RS-232 ports. Most do not use the RTS signal.

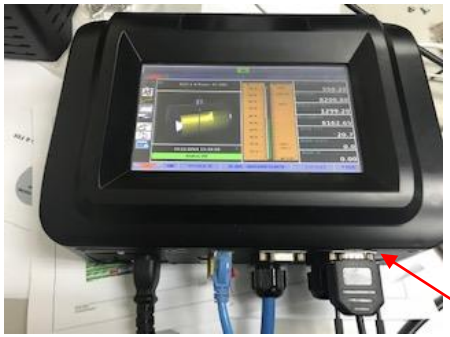
Note that there are only 3 RS-485 ports. Port 4 can only be used for RS-232.

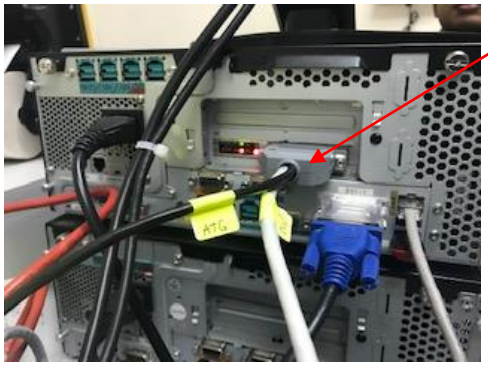
ITL Enabler Configuration

- To check the readings for the ATG on the ITL Enabler use the Site Monitor option

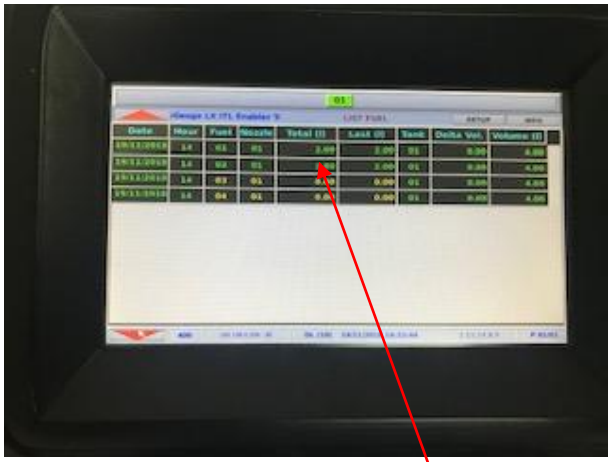


Reference images from the Shell test Centre in The Philippines





ATG Serial Cable connection – in this example we have used Com 2 on the ATG



Checking the transactions from the dispensers via the ATG console – Make sure reconciliation is enabled on the LX (Dip Switch 7 on)