## FastFill Presentation

By CROSSECOM





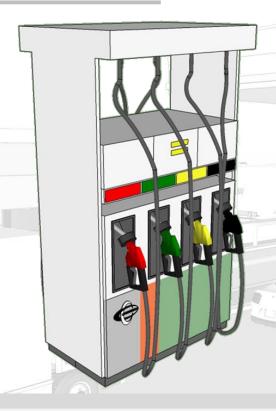
## FastFill

# Electronic Fuel Delivery & Fleet Usage System

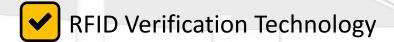




#### Introduction







- Fast Fuelling of Vehicle
- ✓ Multiple Depot / Fuelling Site
- ✓ Paperless Fuelling Transaction





#### **Product Features**



- ⚠ Holds Aust. Govt Testing Authority issued "Certificate of Intrinsic Safety"
- Speeds up fuelling vehicle at the pump
- Eliminates fuelling paperwork, wallet or purse completely
- Uses passive batteryless tag requiring no connection to the vehicle electrical system
- Requires no hole drilling in the vehicle body





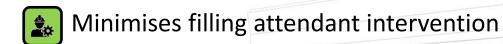
#### **Product Features**

- Easy, simple, quick and inexpensive to fit—little downtime
- Has virtually unlimited life for batteryless vehicle tag
- Tags are rendered inoperative if removed from vehicle
- Optional pinpad odometer reading entry for fuel usage reporting
- Optional pinpad for driver ID entry for identification and reporting
- Wirtual tank levelling (when used with Crossecom FASTFILL site system)





#### System Features



- Reduces fuel shrinkage
- Optimises control over fuel sales
- Reduces filling process time
- Improves fleet fuelling security





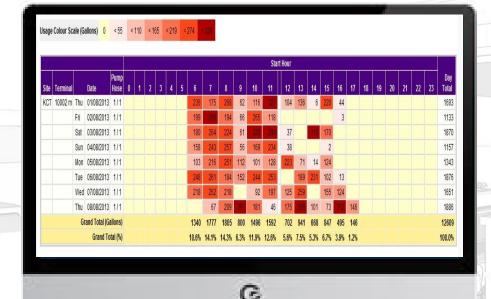
#### System Features

- Ensures only authorised vehicles are filled with correct fuel
- Allows budgeting of fuel usage for individual vehicles or groups
- Eliminates need for logbook documentation
- Provides full audit trail
- Allows emergency fillings of non-authorised vehicles when necessary with full audit trail





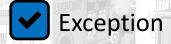
#### Report

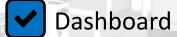


















This is a small batteryless electronic data storage unit (20-50mm in diameter) epoxied to the vehicle near the fill pipe. It can contain information such as vehicle details, owner identification, driver identification, fuel type etc.

The tag uses RFID contactless communication techniques to release its details to the authorising reader. This technique employs two-way authentication allowing only genuine authorised tags to ensure the correct fuel is pumped into the authorised vehicle.

To prevent fraud, a high security challenge and response crypto-algorithm is used.







The antenna, mounted conveniently on the dispensing nozzle spout, comprises a small loop antenna with its low power electronic components. It is connected to the reader (mounted inside the pump housing) via a special petroleum resistant cable.

An optional panel reader (with or without pinpad for odometer entry if required) can be mounted on the pump itself for driver identification purposes. It can also be used to authorise fuel deliveries if the additional security offered by the vehicle mounted tag is not required.





Controller



The System Controller stores information on all authorised vehicles and their respective owners as well as the fuelling requirements for each vehicle.

This information is continually updated and shared between all devices on the network.





The Site Controller checks the data obtained from the tag against available information on that particular vehicle to determine if fuelling is permitted. In the case where the vehicle is not authorised for fuelling or if it has been reported stolen or missing, a suitable alert can be raised.

This system enables vehicles to be fuelled even if communication with the Head Office system is temporarily unavailable by keeping a local copy of the database, but will be updated as soon as communications is restored. Sales and other events are transferred to Head Office for reporting and analysis.





#### System Component















#### System Component

**Head Office** 



The Head Office System comprises a number of different applications that control the overall operation. These applications are responsible for the tag information database & authorisation process as well as the production of various management reports for sales, vehicle usage etc. Exports to third party systems are supported.





#### FastFill Site View – Fuel Depot Site







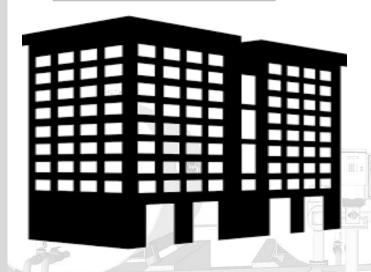




Fuelling Excellence in RFID Solutions and Retail Automation



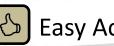
#### **Brief Process**

















Access Server 
 Reports



Anywhere Devices





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### Benefit of FastFill – To Fleet Manager & Owner

- Ensures fuel actually pumped into correct machine
- Better monitoring of fleet fuel consumption
- Improved data collection
- Reduced errors due to minimised human intervention
- Elimination of plastic cards or paper coupons





### Benefit of FastFill – To Fleet Manager & Owner

- Minimisation of fuelling to non-authorised vehicles
- Elimination of stolen cards problem
- Reduced disputes on unauthorised fuel transactions
- Reduction of manpower requirements
- 24x7 operation





### Benefit of FastFill – To Fleet Manager & Owner

- Auditable "Super tags" allow filling of un-tagged vehicles
- Full auditing of every litre of fuel dispensed
- Allows vehicle performance analysis
- EVERY LITRE PUMPED IS AUTOMATICALLY RECORDED TO AN AUTHORISED TAG OR SUPER TAG





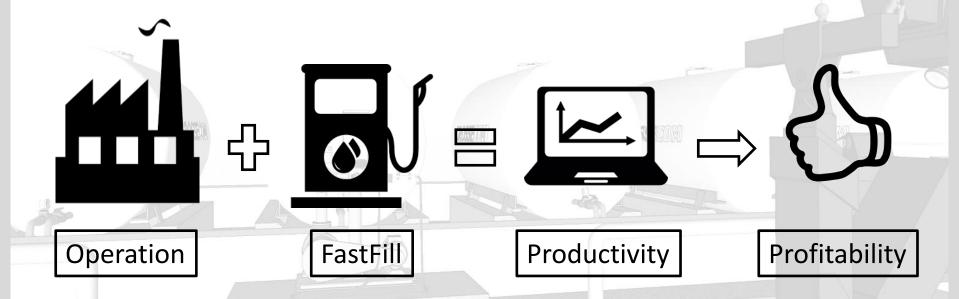
#### Benefit of FastFill – To Driver & Operator

- Reduced process time
- Elimination of paperwork and logbooks
- Elimination of signed chits or plastic cards
- No disputes over fuel allowances
- Automatic vehicle/machine identification





#### Benefit of FastFill – To Business Owner







## Crossecom (Australia) Pty Ltd

Over 25 years of Retail Fuel Industry Experience
Clients to have used Crossecom systems since 1984 include:

Bechtel (Malaysia)
Singapore Petroleum Corporation
Shell (Singapore)
BP (Singapore and Malaysia)
BH Petrol (Malaysia)
Hindustan Petroleum Corporation (India)
ESSO (Australia, Singapore and Malaysia)

Emarates Petroleum (Dubai)
Kuwait National Petroleum Corporation
JomoGAS (Jordan)
Conoco (Malaysia)
Duty Free Stores (Okinawa)
Public Bank Berhad (Malaysia)
American Express (Malaysia)

#### Our products and services include:

Retail Automation - ISSAS

Point of Sale Hardware and Software - TouchPOS, FuelPOS

Protection of goods in storage and transit - CrossESEAL

Radio Frequency Identification (RFID) - FastFILL Automated Fuelling System

Latest;

CheckFILL- Patented Technology for NGV/CNG Industry

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Thank You



