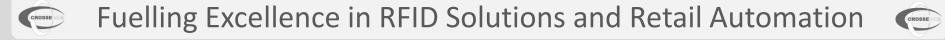
# **MobiFill Presentation**

# By **CROSSE**COM



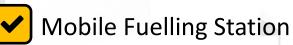
# Electronic Fuel Delivery & Fleet Usage System

MobiFill



### Introduction







RFID Verification Technology





Mobile Data Network Connection.

Cloud Based Fuel Management



### **Product Features**

Uses RFID contactless technology to eliminate fraud

Is an innovative automatic vehicle identification and fuel monitoring system

×

Speeds up fuelling by automating pre-fuel checks



Eliminates fuelling paperwork completely



Uses passive batteryless tag requiring no connection to the vehicle electrical system



GPS tracking of vehicle and events (sales, exceptions)



### **Product Features**



Easy, simple, quick and inexpensive to fit—little downtime

Has virtually unlimited life for batteryless vehicle tag



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Tags are rendered inoperative if removed from vehicle



Optional pinpad odometer reading entry for fuel usage reporting



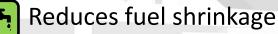
Virtual tank levelling (when used with Crossecom FASTFILL site system)



### System Features



Minimises filling attendant intervention





Optimises control over fuel sales



Reduces filling process time



Improves fleet fuelling security



### System Features



Ensures only authorised vehicles are fuelled



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

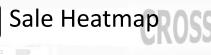
### Report

- 11		l-,	Start Hour																									
Site	Terminal			Pump Hose	0	1	2	3	4	5 6		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Day Total
KCT ·	10002 m	Thu	01/08/2013	1/1						23	175	268	62	116	327	104	136	6	220	44								1693
		Fri	02/08/2013	1/1						19	289	194	66	265	118					3								1133
		Sat	03/08/2013	1/1						18	264	224	61	329	290	37		318	170									1870
		Sun	04/08/2013	1/1						15	243	257	56	169	234	38			2									1157
		Mon	05/08/2013	1/1						10	216	251	112	101	128	223	71	14	124									1343
		Tue	06/08/2013	1/1						24	261	184	152	244	253		189	231	102	13								1876
		Wed	07/08/2013	1/1						21	262	218		92	197	125	259		155	124								1651
		Thu	08/08/2013	1/1							67	209	291	181	46	175	286	101	73	312	146							1886
Grand Total (Gallons)					134	1777	1805	800	1496	1592	702	941	668	847	495	146							12609					
Grand Total (%)									10.6	14.1%	14.3%	6.3%	11.9%	12.6%	5.6%	7.5%	5.3%	6.7%	3.9%	1.2%							100.0%	

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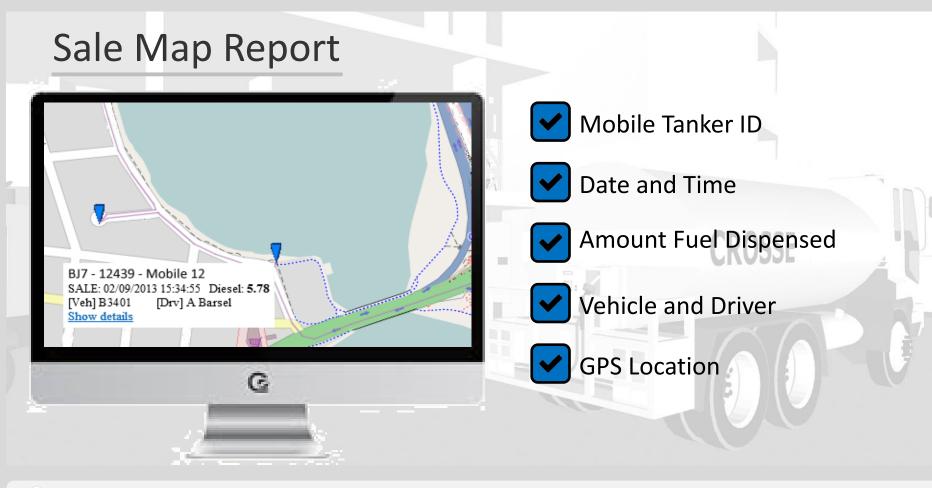




**Mobile Pump Activity** 

Dashboard







Vehicle Tag



used.

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



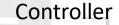
#### Nozzle Antenna / Reader



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.







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 using the cellular network.

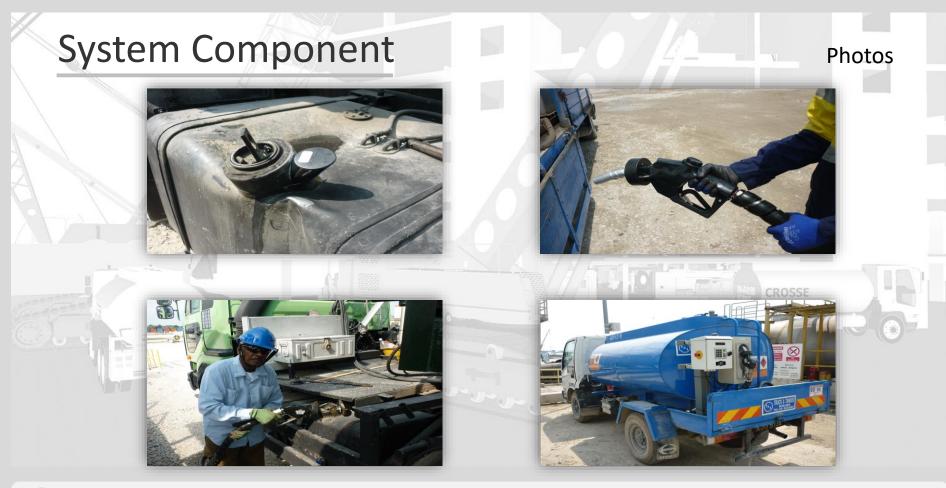


Controller

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.







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KCT:10002 m	03/07/2013 21:16:43 Exception					Site-MOB	160	MF Status. Fault 'C'			
KCT:10002 m	03/07/2013 21:16:44 Exception					Site-MOB	160	MF Status. Fault 'CG'			
KCT:10002 m	03/07/2013 21:17:22 Exception					Site-MOB	160	MF Status. Fault 'C'			
KCT:10002 m	03/07/2013 21:17:43 Sale	Vehicle	RTG KC02	Diesel 10	2.00						
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KCT:10002 m	03/07/2013 21:18:31 Exception					Site-MOB	160	MF Status, Fault 'C'			

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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, GPS mapping of events etc. Exports to third party systems are supported.



# MobiFill Site View – Container Terminal Gantry Cranes ✓ Generators ✓ Loaders Prime Movers Stackers ✓ Others

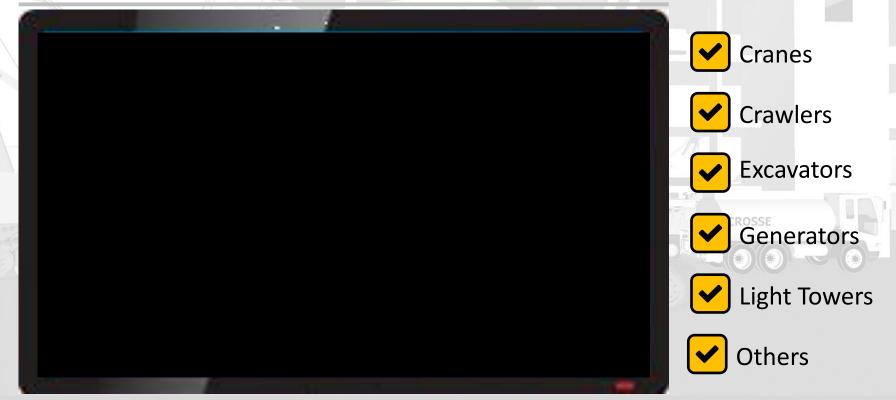








### MobiFill Site View – Construction Site



Fuelling Excellence in RFID Solutions and Retail Automation



Fuelling Excellence in RFID Solutions and Retail Automation



Fuelling Excellence in RFID Solutions and Retail Automation

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



Minimisation of fuelling to non-authorised vehicles



Elimination of stolen cards problem



Reduced disputes on unauthorised fuel transactions

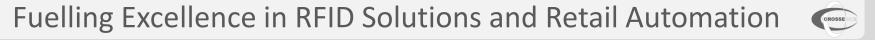


Reduction of manpower requirements



24x7 operation





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



Auditable "Super tags" allow filling of un-tagged vehicles



Full auditing of every litre of fuel dispensed

Online GPS tracking of vehicles and events



Allows vehicle performance analysis



EVERY LITRE PUMPED IS AUTOMATICALLY RECORDED TO AN AUTHORISED TAG OR SUPER TAG



### Benefit of MobiFill – To Driver & Operator



Reduced process time



Elimination of paperwork and logbooks



Elimination of signed chits or plastic cards



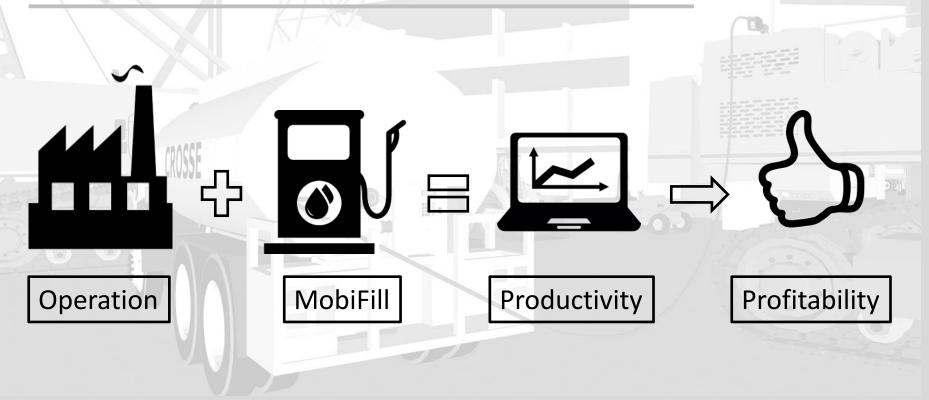
No disputes over fuel allowances



Automatic vehicle/machine identification



### Benefit of MobiFill – To Business Owner



Fuelling Excellence in RFID Solutions and Retail Automation

# 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

visit us on: www.crossecom.com.au

# **MobiFill Presentation**

## Thank You

