FuelTrans
Reimagine Fuel Retailing

FuelTrans
Station Manager

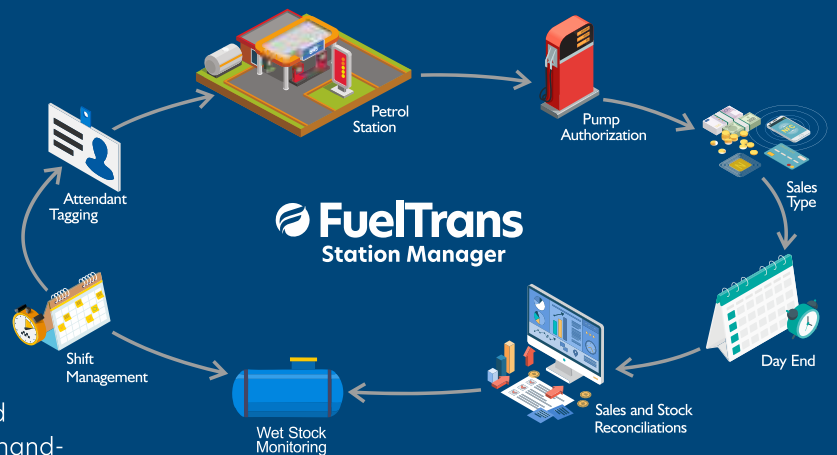# Maximizing value proposition with end-to-end Retail Automation

Fuel retailing is at industry crossroads, with the changing macroeconomic climate, increasing volatility in demand and soaring customer expectations. Forecourts are transforming into major hubs of business, delivering value beyond fuel and convenience sales. But the segment is beset with challenges related to visibility, inventory and quality monitoring and management.

To improve net present value and unlock more from adjacent value pools, fuel retailers need complete control and visibility over operations. Digitally-enabled and data-driven levers can maximize value from the core business, improve utilization of forecourt real estate and help build a distinctive and holistic value proposition.

Next-Gen Wireless IoT-enabled Fuel Station Automation

Bahwan CyberTek's Station Manager offers end-to- end automation of fuel stations for real-time visibility and complete control over entire operations. The solution covers every major component of a fuel station—from dispensers, tanks, ATG probes, price polls to wet stock management and delivers optimum value proposition through wireless forecourt automation, centralised monitoring system and Cashless/Cardless AVI system integrated with hand-held solution to cater fleet customers.

FuelTrans
Station Manager

Petrol Station
Pump Authorization
Sales Type
Day End
Sales and Stock Reconciliations
Wet Stock Monitoring
Shift Management
Attendant Tagging

Fuel Station Automation | Simplicity, Visibility, Efficiency

The Station Manager is a cloud-based Fuel Station Management Solution that provides real-time data visibility on sales, wet stock inventory, equipment monitoring and various quality parameters to seamlessly manage all fuel station operations in an optimized way.

The Station Manager offers

Complete wireless forecourt technology to deploy the Smart Service Station of the future

Real-time data visibility and monitoring to seamlessly manage all operations and equipment alerts through different form factors – an intuitive back-office user interface, Centralised Management System (CMS) and Mobile App

Attendant management and attendant tagging to eliminate manual intervention and speed up operations and transactions, resulting in a quick 'Customer Fill Experience'

Real-time alerts and alarms notifications to enhance visibility and control over on-going operations with a range of indicators such as Tank High Water, Tank Lower Product, Tanker Decantation, Pump Testing, Pump & Tank Status (Online/Offline)

Wet stock Management - Gain a holistic view of inventory processes. View wet stock management data including fuel sales, tank gauge readings, pump totals and deliveries, and manage your stock with total accuracy. Track inventory transactions and production costs, and match orders to deliveries at head office.Maximize fuel margins and determine the optimal pricing. This system also provides a Secondary Distribution Information Hub that gives a 360° view of oil distribution, logistics, and operations

RFID-based automatic vehicle and customer identification solution allowing cardless/cashless filling operations to cater to fleet customers

Forecourt Automation |
Embedded Solution in a Box

Bahwan CyberTek offers a field-proven and complete wireless forecourt automation solution designed for secure fuelling, quick installations and easy upgrade of fuel stations for real-time visibility and control of entire operations.

With Forecourt Automation, business gain

Quick and cost-effective installations
robust, next-gen IoT-enabled wireless architecture for easy installation, eliminating the need for civil works

Single point of control at forecourt and back office
Eliminating the need for additional IT devices, such as Pc's

Robust hardware with a range of interface
- Solid state-embedded and industrial design to reduce downtime and operation losses. Interfaces to fuel dispensing units, ATG Probes, Attendant Tag Readers, Price Polls, Payment Terminals; add-on interfaces customisable as per customer needs

Built-in fall-back functionalities
- Built-in battery backup for FCC safe shutdown; fall-back mechanism and instantaneous recovery from shutdowns for increased system uptime
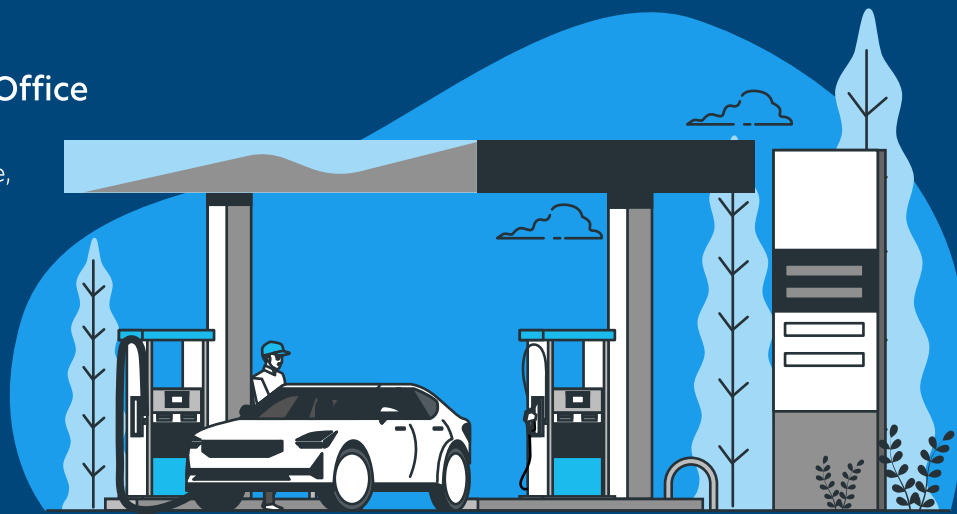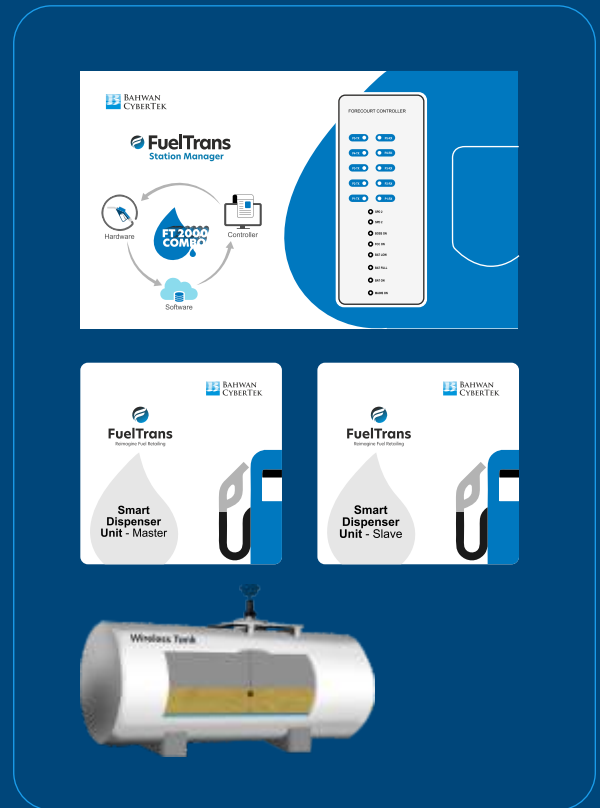
Embedded solution in an enclosure
- A secure wall- mounted enclosure with access control and user access tracking to house FCC, Power Supplies, ATG Barriers and surge protection devices.

Built-in web-based Back Office Application (BOS) -
Intuitive back-office user interface to capture, collate and analyse all sales and stock transactions digitally. Wide range of standard reports and trends tailored to retail fuel station environment.

Centralized Monitoring Solution (CMS) | For Complete Control Over Fuel Stations

CMS is a Head Office application that automates retail outlets and allows central management and monitoring of site data across fuel station network. From every fuel dispenser transaction to wet stock inventory to quality parameters, the CMS digitally controls and tracks every activity at the fuel station.

Automated data collection on sales transactions, stock inventory, tank status, pump status, events, and alarms from retail outlets for real-time analytics and decision making

Intelligent dashboards with hourly/weekly/monthly sales, stock and ullage, retail outlet connectivity, product wise critical stock , price   change status and price change exceptions analytical reports

Real-time alerts and alarms notifications as per business rules

Centralized price update to network of retail outlets

Role-based access to stakeholders including dealer access for remote monitoring of the outlet operations

Comprehensive wet stock analysis and RO Inspection reports

Centralized campaigns, discount management across retail outlets network

Ready integration with ERP systems / third-party systems for product price push, TT Receipts and transactions alerts to customers through SMS gateway

Rule-based interlock logics to bring transparency, discipline and ensure safety in operations with range of indicators such as high tank water, lower tank product, tank decantation, pump testing, etc

Remote management functionalities of retail outlet closure / reopening, DU Enable / Disable, Interlock Enable/Disable

Tracking of DU maintenance and repair through approval process and managing DU password through CMS / FCC

Benefits for fuel marketing companies

- Centralized and integrated system to increase visibility across sales and inventory

- Real-time data to generate accurate marketing insights

- Better insights into sales and stock trends resulting in improved sales and ability to avert potential issues

- Efficient customer relationship management

- Efficient wet stock management, centralized pricing, and compliance management

- Improved capabilities and services to drive speed and consistency

- Enhanced forecourt efficiency via predictive analytics

FuelSmart | Mobile App

Every Fuel Station and its operation is top priority for a Fuel Marketing Company. The data plays key role, to plan and make quick business decisions at various level. Digital Transformation with FuelSmart Mobile App enables OMCs and their dealers to monitor operations of fuel stations right from your fingertip.

FuelSmart mobile app is an initiative in the direction of digitising the entire process of forecourt operations under a highly secured environment giving instant visibility of retail outlet data to all concerned.

Redefining the way to access retail outlet data, FuelTrans brings FuelSmart mobile app on a single platform that caters to retail officers and dealers. The mobile app empowers users to support their day-to-day operations and lets you manage & control your fuel station from any location to better serve the customers.

The mobile app has role-based access and provides essential support for sales managers, field officers, dealers on real time monitoring of sales transactions, tank inventory, fuel pricing.

The app also pro-actively alerts users on site operational issues with range of indicators such as pump offline, high tank water, low tank product or other forecourt paraments giving users advance warning so users can keep the retail outlet running smoothly while saving precious time.

The key feature of app includes:

- Secured and role-based dashboard for Dealers, Field Officers, Sales Managers and C-level users to manage network of fuel stations & monitor site data

- Real time visibility of sale transactions, tank inventory and equipment alarms

- Track Pump & Tank Online / Offline status

- Manage price update

- Intelligent Sales & Inventory trends with hourly/weekly/monthly view

- Pump & Attendant wise sales monitoring

- Monitor site connectivity status

- Drive pump maintenance & repair request and approvals

- Handle Order bookings (Lubes & Others)

- Manage invoice, receipts and credit note entries

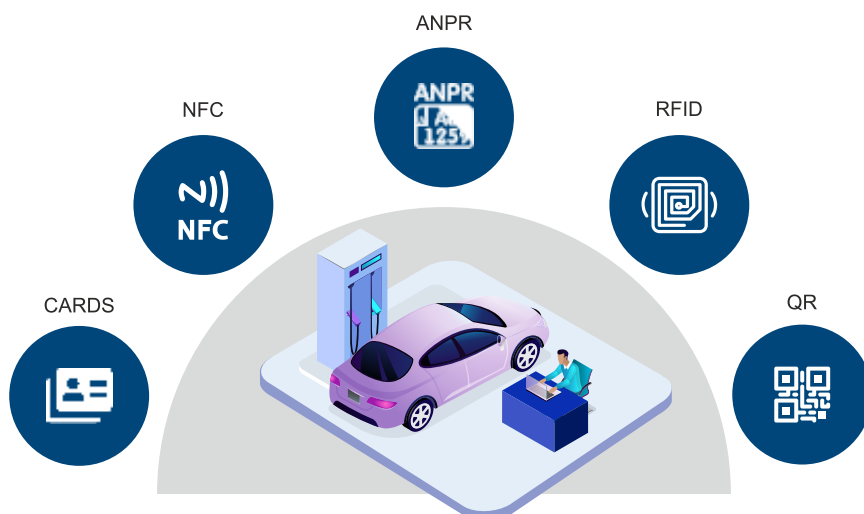# FuelFleet | Fuel Card Management Solution (FCMS)

FuelFleet is an industry leading Fuel Card Management Solution (FCMS) that provides fleet owners, operators, and managers a connected experience and interface to remotely monitor their entire fleet fueling from single dashboard. FuelFleet provides real-time data of vehicles, cards, RFID Tags, Fuel transactions, Device alerts, notifications, and audit trails. FuelFleet provides easy and innovative alternative to standard fleet solution, the solution includes mobile application, and web-portal interface for key users to monitor and control the fleet limit, Daily/Wekly/Monthly Restrictions, and adding/removing vehicles.

The solution utilises alphanumeric Mifare keypads for reading Mifare based Fuel Cards and will utilize Android based Hand Held Terminal for reading NFC Tag's/ Vehicle Plate using ANPR and QR Code stickers.

Hand Held Terminal (HHT) | Petrol Station In Your Palm

FuelFleet Hand Held Terminal (HHT) is a petrol station in the palm of your hand. An all-in-one solution to manage fuel stations, FuelFleet HHT can operate standalone or can be used in connection with forecourt equipment. With FuelFleet HHT, companies can control and authorise dispensers, monitor and track wet stock and perform daily reconciliation, including closing shifts and printing shift summaries.

When integrated with FuelFleet Fuel Card Management Solution (FCMS), the HHT can be used to read NFC tags or vehicle plates using ANPR and QR code stickers on consumer mobile applications for initiating fuel transaction using digital payments, mobile wallets and post- or pre-paid methods.

Benefits

- Reduces fuel and operational costs, losses, and ensures optimal fuel distribution.

- Automated operations with real-time insight on station, fleet and fuel status.

- Complete control of fuel usage by fleet while reducing fuel expenses, misuse, and losses.

- Flexible and scalable deployment, as well as straightforward interfaces with third party applications

- Transaction data collection from pumps

- Capability to scan and capture vehicle number plates

- Secure and portable equipment to reduce cash management challenges

- Fast and easy transactions
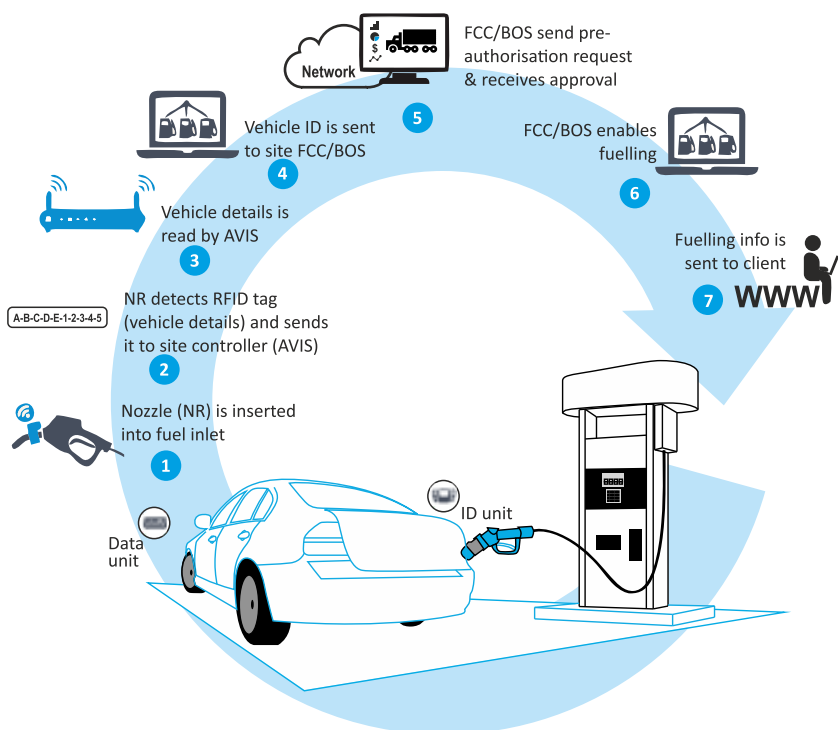
ANPR

NFC

RFID

CARDS

QR

e-Fuel | RFID-based Vehicle Identification for Fleet Customers

e-Fuel is a new-age solution to automatically identify vehicles (AVI) and customers through RFID technology to deliver contactless refuelling and payment experience bringing in efficacy in fuel management.

e-Fuel offers security, convenience, transparency, and speedy payment settlement making it the smarter way of fuelling for fleet customers and ensure the right amount of fuel is dispensed.

e-Fuel can be integrated with our Central Monitoring Solution (CMS) where oil companies can manage their fleet customers, contracts, limits and restrictions for every vehicle, including

- Setting fuelling limits per day/week/month in a specific station / region and allowing fuelling only on specific days of the week

- Complete control of fuel usage while reducing fuel expenses, misuse, and losses. Prevention of fuel fraud by fuelling of authorized fleet vehicles only

- Build new revenue streams and understand customer buying behaviours

- Automated operations with real-time insight on fleet and fuel status

- Standard and advanced report on vehicle usage and consumption

- Sends alerts on unusual behaviour and fuel consumption

- Odometer and engine hour readin gs for effective maintenance scheduling

Network — FCC/BOS send pre-authorisation request & receives approval

Vehicle ID is sent to site FCC/BOS — 4

FCC/BOS enables fuelling — 6

Vehicle details is read by AVIS — 3

Fuelling info is sent to client — 7

NR detects RFID tag (vehicle details) and sends it to site controller (AVIS) — 2

A-B-C-D-E-1-2-3-4-5

Nozzle (NR) is inserted into fuel inlet — 1

ID unit

Data unit

Benefits for station owners

- Reduced check out times and speedy transactions for a 'Quick Fill Experience'

- Provide a unique offering that benefits fleets, ensuring they stay loyal.

- Near-zero manual intervention. Make contactless fuelling and hassle-free invoicing process, safe and convenient

- Automatic recognition of consumers to boost revenues

- Cash control, reduced fraud and pilferages

- Provide targeted customer offerings (discounts, account types, etc.)

Benefits for Fleet owners

- Ensure right fuel qty goes into your right vehicles (eliminate fraud, lower costs)

- Eliminate manual back-office tracking process (all automated reporting)

- Simplify fuelling process for drivers

- Automatically collect and report vehicle /engine data (ID maintenance issues, stop tank siphoning)

Why Station Manager?

- Near-zero manual intervention resulting in a Quick Fill Experience

- Customer Relationship Management

- Real-time data visibility and control of entire retail operations

- Accurate marketing insights generation

- Transparency and control of all facets of retail outlet operations

- Efficient wet stock management and monitoring

- Better Inventory control and supply chain management with audit and compliance

- Efficient centralized price change and compliance management

- Better insights into equipment alerts and alarms, resulting in improved sales and ability to avert potential issues

- Enhanced forecourt efficiency through predictive analytics

- Improved capabilities and services to drive more speed and consistency

- Operational transparency and labour cost-savings

- Audit control with better reporting brings transparency and discipline to ensure safety

- Elimination of frauds and pilferages

About Us

Bahwan CyberTek (BCT) is a digital transformation company founded in 1999 and has delivered solutions in over 20 countries. The company today has 3000+ associates, 1000+ Enterprise Customers and 3500+ SME Customers globally, including Fortune 500 Companies.

BCT is a thought leader and innovative solutions partner and has delivered transformational solutions across Logistics, Predictive Analytics, Payments & Citizen Services & Education through IP-led products and cognitive solutions, growth accelerators and outcome-based business models. For more on Bahwan CyberTek, please visit www.bahwancybertek.com

For a demo of FuelTrans, please write to SALES-DSCM@bahwancybertek.com

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