



ALIEN

Technology From another World

FUEL | Hardware and Software Management System

There are many ways to bring to light a new frontier of newfound technology that can determine product and service solutions.



WARP your business – fuel the journey





Alien Automation Technologies (Pty) Ltd is a leading provider of integrated hardware and software solutions tailored to the petroleum and retail industries. Built on the principle of "honest profit," we offer future-forward technologies that prioritize reliability, client empowerment, and operational excellence. Our goal is to enable fuel business operators to streamline operations, enhance customer experience, and improve profit margins through innovation.

Why Alien Automation Technologies?

- **12+ Years of Industry Development:** Built using direct input from businesses across industries.
- **No Contract, SaaS Model:** Monthly fees include all services, support, and development.
- **Future-Proof:** All clients receive the latest features at no additional cost.
- **Minimal Setup Costs:** Remote installations, device agnostic, and serverless architecture.
- **Real-Time Data & Reporting:** No bulk processing or period closings; data available anytime.

Key Software Capabilities

1. Unified ERP Platform

- One installation supports operations across multiple countries, industries, and currencies.
- Fully integrated with accounting, POS, inventory, loyalty, ecommerce, and timekeeping systems.
- All reports, from basic to advanced analytics, are available in real-time.

2. POS & Forecourt Management

- Mobile POS with full functionality, EMV compliance, and wireless capability.
- Transact Screens (automated or manual) for various environments, including restaurants and C-stores.
- Built-in promo manager for location-specific or customer-based pricing.

3. Fuel & Stock Control

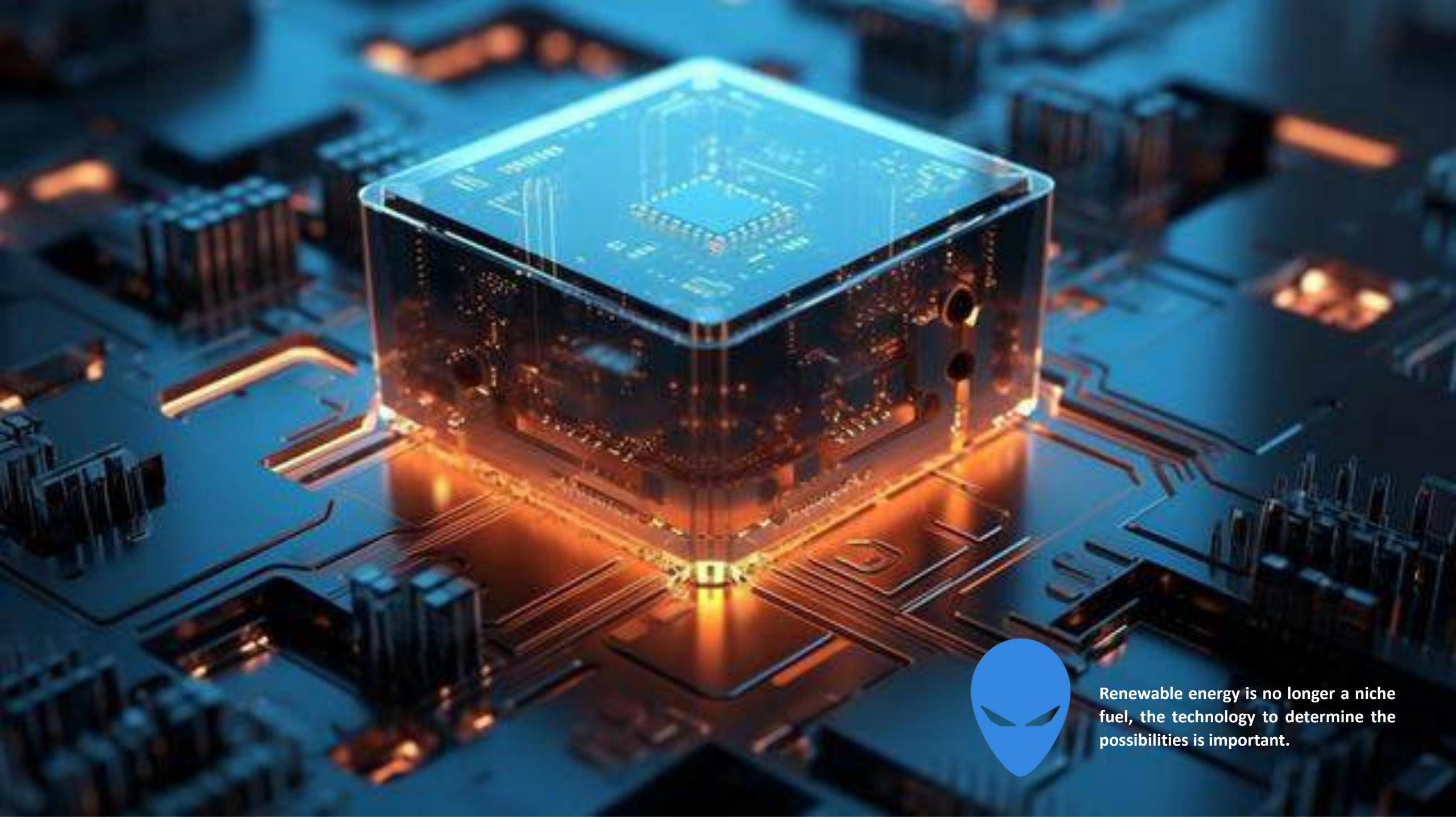
- Seamless tracking from pump to POS with integrated tank gauging.
- Theft and leak detection using cross-analysis of sales, pump data, and probe data.
- Remote stock reporting and predictive ordering eliminate discrepancies.

4. Enterprise Pump Control

- Custom-built TCP/IP pump controllers for Prowalco, Gilbarco, Tokheim, Dresser Wayne, and others.
- Decentralized control—no single point of failure; hot-swap capability.
- Integration with Enabler and Postec for other pump types.

5. Tagging & Access Control

- Supports iButton, RFID, MiFare, eFuel, TFN, GasnGo, and more.
- Pre-authorized fueling via account credit limits and fuel orders.
- Custom tagging hardware with wireless capability.



Renewable energy is no longer a niche fuel, the technology to determine the possibilities is important.



6. Accounts & Pricing Engine

- Centralized management of clients, suppliers, sub-accounts, and loyalty cards.
- Location-based pricing per vehicle or customer.
- HTML-based custom statements, invoices, and receipts.

Hardware Innovations

- In-house development of pump controllers, IoT devices, and microcontrollers.
- Mobile tank gauging in development, with GPS integration for real-time tracking.
- Custom asynchronous data replication ensures continuity even in low-connectivity regions.

Reporting & Business Intelligence

- Custom reports with over 200 filters; Express Reports for quick insights.
- Full fuel report suite including shift reconciliation and consumption analysis.
- Integrated dashboards and portals for franchise-wide or store-level management.

Integration Ecosystem

- Compatible with: TomTom, Shell D Card, Traderoot, Nomad, ZK devices, facial recognition, tank gauges, label printers, and more.
- Supports HTML, SQL, .NET, Android, and VB for expansive compatibility.
- All updates are remotely deployed with no user intervention required.

Support & Training

- [Alien Ghost](#): Real-time remote access support.
- [Live Help Station](#): Access to guides, training docs, and system walkthroughs.
- [Self-healing Installations](#): Remote disaster recovery and system rebuilding capabilities.

Security & Access

- Role-based access with per-user security levels.
- Full audit trails and logging for all functions.
- Configurable access from any location for authorized users.

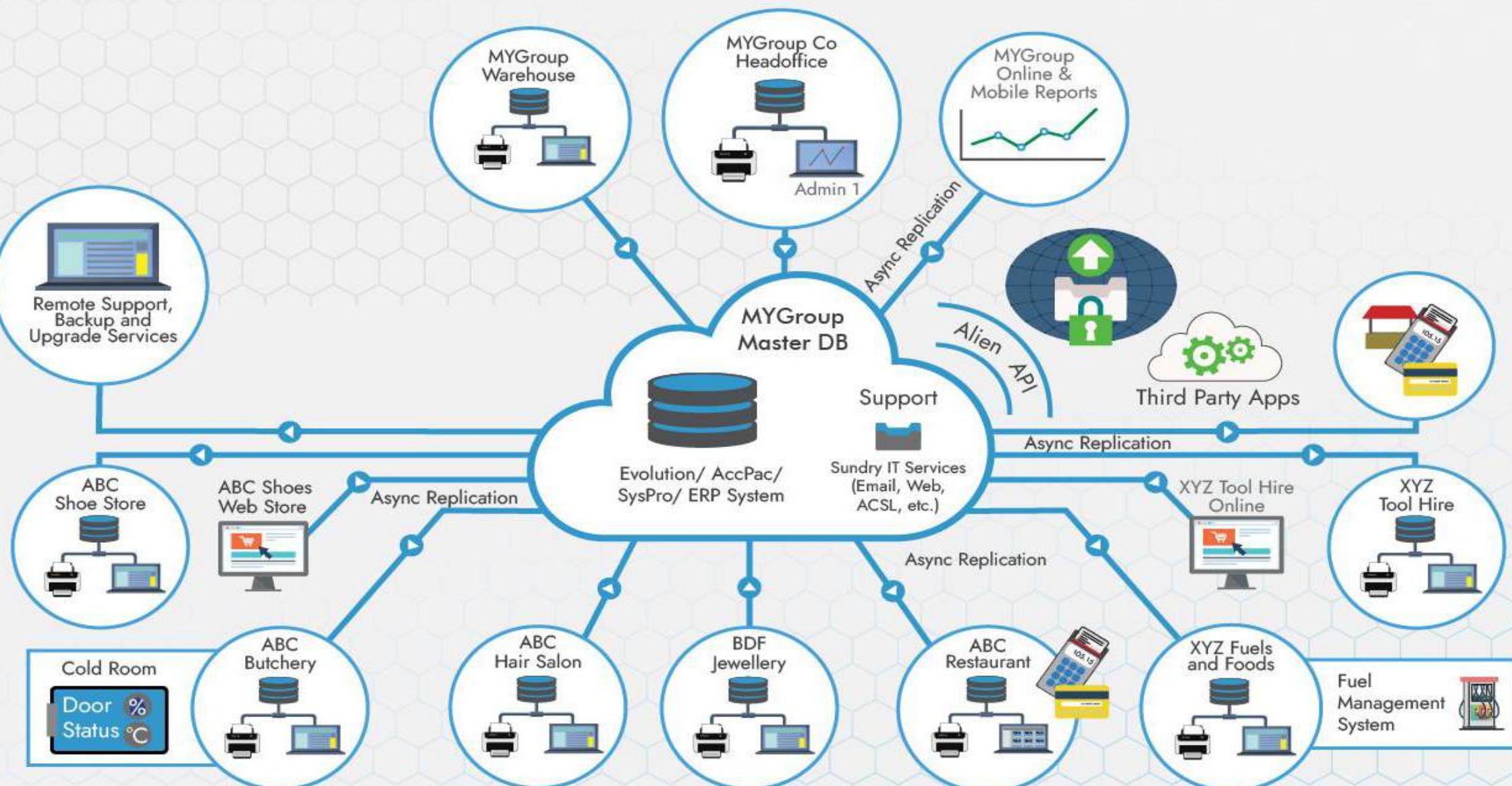
Modules Summary

- **Transact**: All payment and fuel sales
- **Stock Control**: From ordering to manufacturing
- **Accounts**: Management of clients, loyalty, and suppliers
- **Promo**: Dynamic pricing promotions
- **Reports**: Real-time, filtered, and custom
- **Tools**: Timekeeping, labeling, templates, scheduling

Future Roadmap

- Android and IoT expansion
- Enhanced financial module (GL, Income Statement, Asset Management)
- Mobile tank gauging and fleet fuel monitoring

ALIEN SIMPLIFIED ARCHITECTURE





Small-scale or Large Operations - Alien, the game-changing system for fuel stations ideal for both small-scale retailers and large operations. From stock control to sales, loyalty programs, and more, Alien offers it and even integrates with most accounting software for a complete ERP solution.

Enjoy remote stock reporting - Stock losses with easy-to-use and accurate stock control are something of the past, now you can enjoy remote stock reporting, eliminating stock inventory discrepancies with accurate figures of all attributes of product development, stock movement, and stock retail.

On-line portal for clients and Customers - Your online Alien client portal gives instant access to statements and invoices for transparency and convenience.

No active servers - Unlike traditional systems, Alien operates without active servers. Even if your lines go down, your Point-Of-Sale and management system remain operational. Data is securely hosted, and continuous synchronization with shop tills ensures seamless functionality. Backup management minimizes downtime in the face of disasters.

Built-in promo manager - Take control of pricing with Alien's built-in promo manager and manage prices from anywhere which is set up customer-specific or location-specific prices effortlessly.

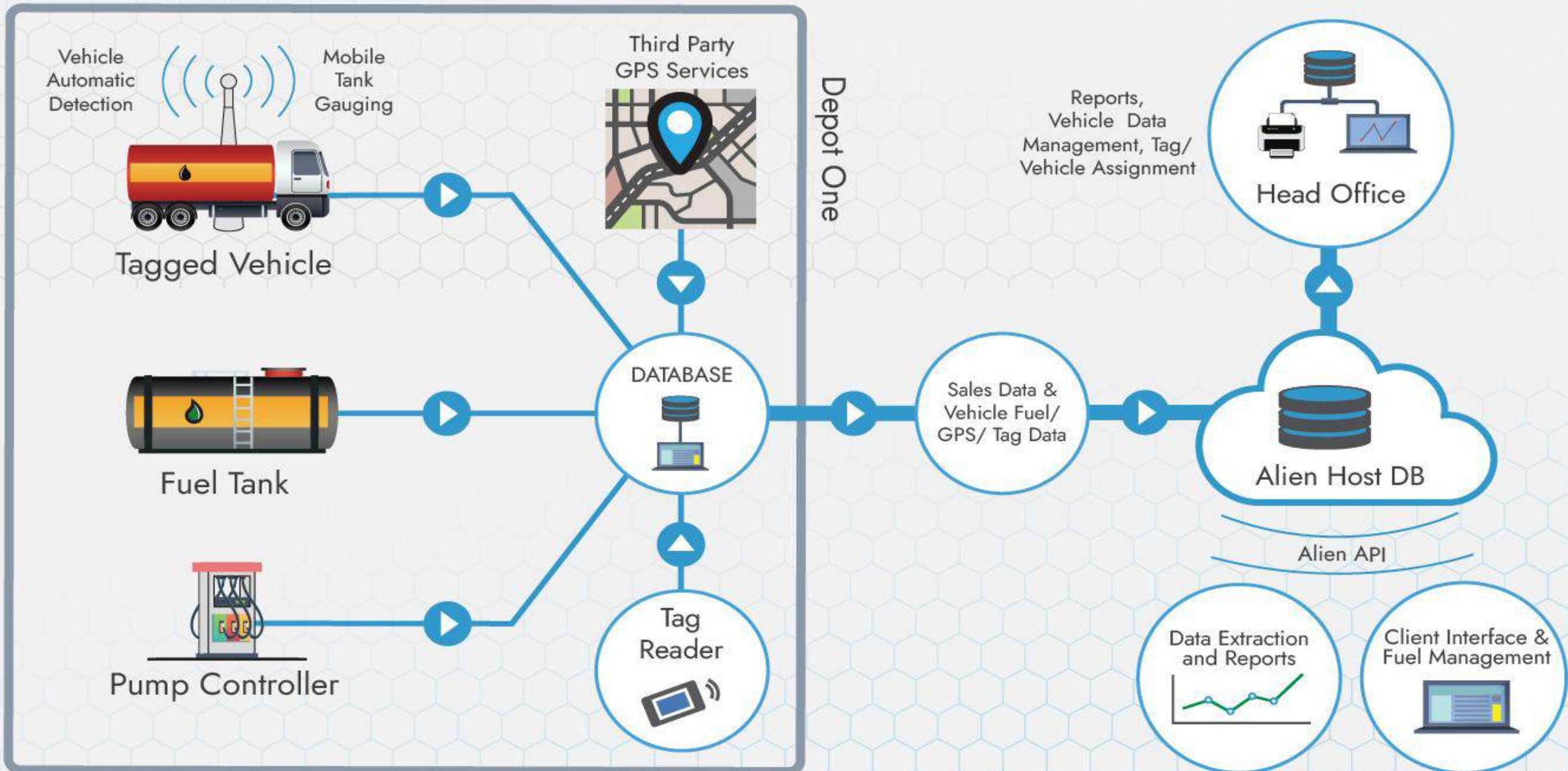
Enterprise pump controllers and tagging options - Manage pre-authorized pump access based on allocated fuel orders and account credit limits via Alien's enterprise pump controllers and tagging options. Alien's unique approach ensures site stability, even if a central pump controller fails, it is cost-effective and user-replaceable.

Revolutionize fuel station management, with Alien's integrated system and experience streamlined operations, robust stock control, versatile reporting, online customer features, and innovative pump controller setup.



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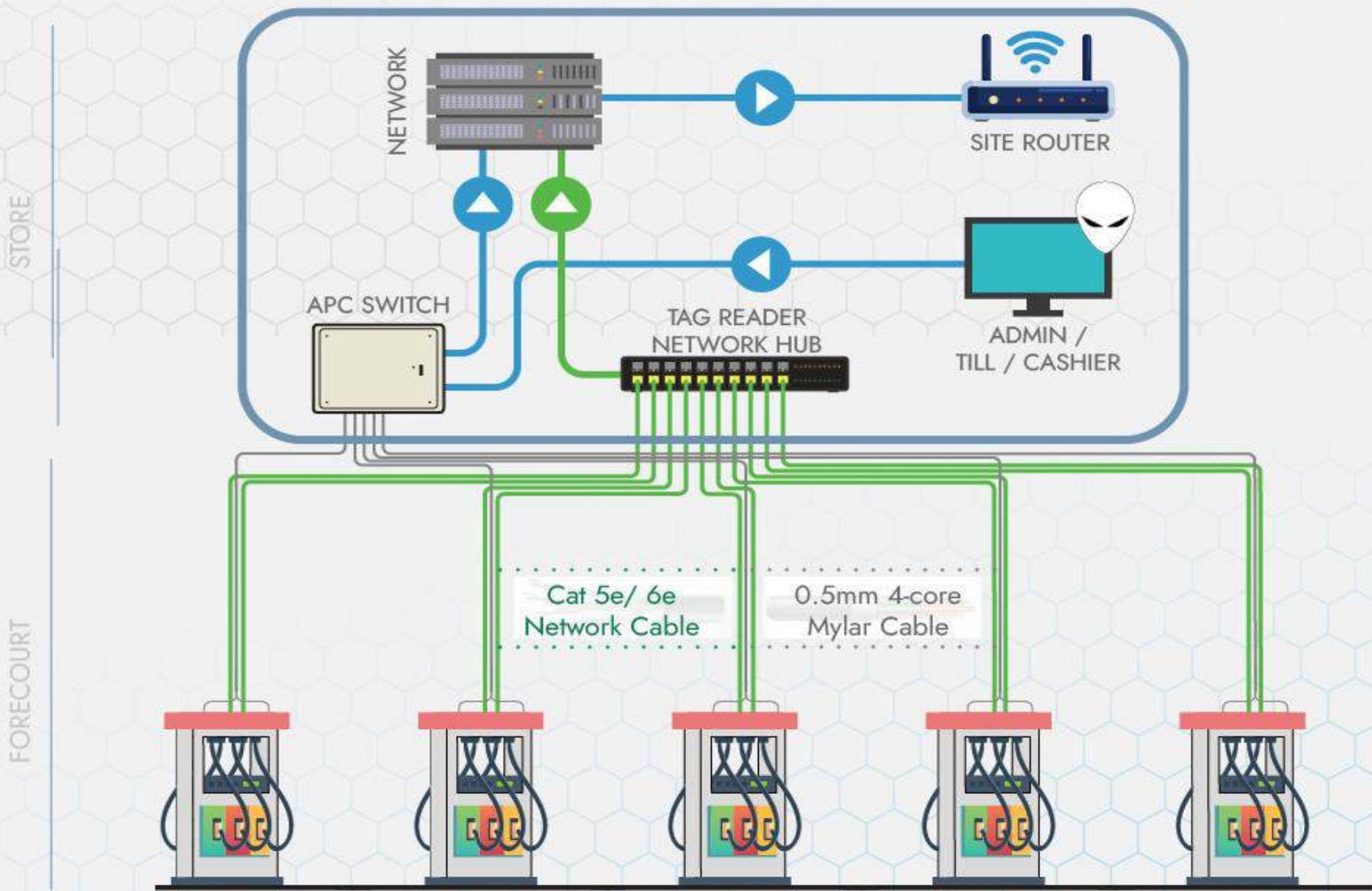
FUEL PUMP CONTROL SYSTEM DIAGRAM





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FORECOURT SYSTEM DIAGRAM





Alien is a software and hardware development company. We integrate into third party software and hardware products, such as petrol pumps, robotics, RFID devices.

Alien also develops their own hardware, such as fuel pump controllers, IOT devices and industrial micro controllers.

Our ERP software has been developed over many years using our clients in various industries as both development partners and critics.

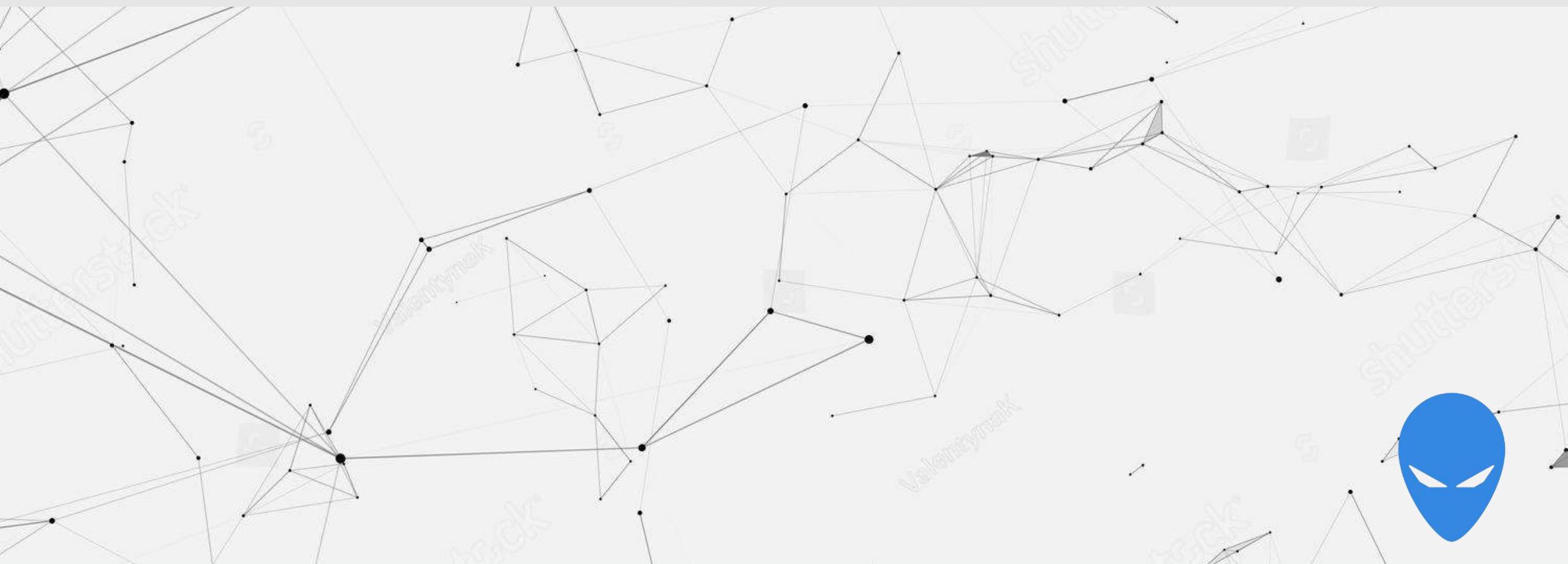
All businesses are fundamentally the same. By combining all these inputs from various clients doing different kinds of business, Alien evolved as a single software system that is configurable enough to manage most of the businesses processes across many industries.

Alien uses the best technology for each solution, rather than the latest one. Combined with cutting edge hardware and database and data management techniques, Alien can manage very large amounts of information while still compiling all reports in real time.

Most often fuel systems are developed the other way round so that things such as stock control became an afterthought rather than vital business tools, the Alien WARP hardware and software network fundamentals covers all quarters of a fuel station, including backend extensions as reporting portals that include the modular procedures of a chain of command as part of a franchise with back office monitoring.

Alien developed their own pump controller for Prowalco, Gilbarco and Tokheim. Dresser Wayne and Hong Yang/ Star.

Other pump types can be managed through integration with the Enabler or Postec pump controllers.



TANK GAUGING

For tank gauging, Alien has their own probes directly integrated, which cost a fraction of the competition. Integration into Fafnir is available with Veeder Root imminent.

Alien employs a unique algorithm using probe, sales and controller data to effectively detect theft and leaks by employing graphic representations of tank drops versus actual sales and pump controller executions.

Another product in development is mobile tank gauging. The system will allow for mobile transactions and tank level monitoring. An integration to TomTom and other providers will allow for automated GPS location and odometer readings.



TAGGING

Alien has many tagging systems such as iButtons, RFID, MiFare, eFuel, GasnGo, TFN, etc. Integrations with third-party tagging, such as MPI is in progress and integrated tagging is also catered for.

Most of our own tagging options employ TCP/IP and, together with our TCP/ IP pump controller, allows for wireless operation.



PUMP CONTROLLERS

With the Alien Pump Controller, each pump is controlled individually and there is no central point of failure as with most other controllers. Alien Pump Controllers employs TCP/ IP allowing for wireless or wired communication. Each individual pump controller can be replaced in seconds by the client themselves and only affects one pump at a time if they break down.



The Pump Controller software managing the pump connections can be pre-installed in stand-by mode on several machines and can be switched to in minutes if a machine fails.



Terminals

The Alien identification Biometrics sequence controls access and captures a database of time and attendance.

Peripherals

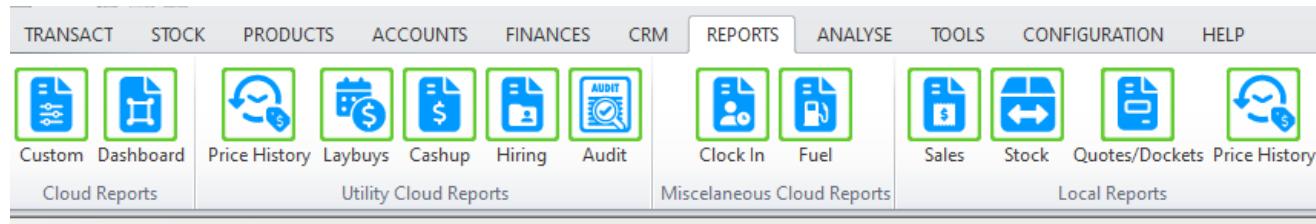
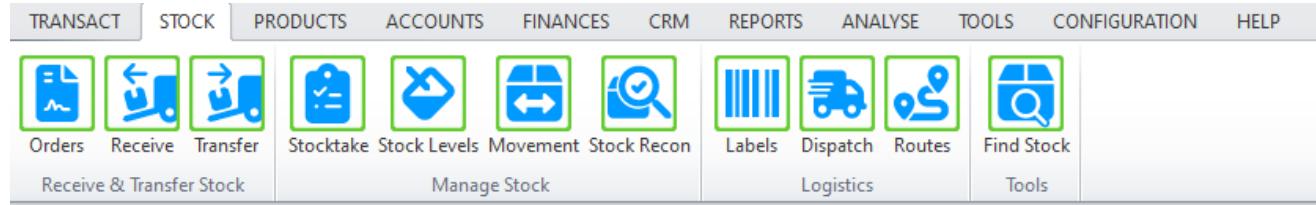
The Alien hardware Peripherals connects your business interments seamlessly with porting control to secure traffic flow, this includes scales, pole displays, Tomtom connect, miscellaneous devices, signature pads, barcode scanners and cash drawers.

Fuelling

Advanced Fuel gauging and pump control solutions configured to improve your business operations.

RFID

The close range tag reader can collate with different RFID accessories to control access flow and generate calculated reports, tags and cards can be included to market your loyalty campaign, unlock fuel pumps; and, control time and attendance.



There are many modules included in the software program to manage fuel. Stock management includes; receiving and transferring of stock, management, logistics and reporting, the configuration tools allow you to include business data.

Transacting can include network extensions that operate in forecourt and retail; a Alien MOBIpos point of sale device; and; in retail, as a Alien POS touch screen till point, you can manage the fueling business from start to finish.

The network tools can include time and attendance captured with finger scanning.

TRANSACTION

The Transact Screen comes in two versions. The first being the most popular. The Transact Screen can also run in fully automated mode for fuel stations.

For ecommerce, Alien is integrated to Traderoot and Nomad.

Pop up screens allow for table selection/ management in restaurants, airtime sales and quick selection of goods. The last being mostly used in fast food restaurants.

Data entry is available via scanner, text searches, short codes and pop up quick buttons.



The Transact screen allows for Park and Park-to-Pump storing sales such oil to a pump transaction in progress, returning goods, emailing of formal invoices, ordering, quoting, cash drops, etc.

The second Transact Screen is intended for touch screen operations.

Side views, such as the info panel on the right slides in and out.



Transact



Touchscreen



Cashup

Daily Sales & Expenses

Other Modes

End of Day



2211110480

Bal. R54030.18 Available R104030.18

Co Reg (Reg De Kock) (Reg | Sub | VAT# |

Title Mr. Name Reg Surname De Kock

Email reg@aliens.co.za Tel 0826920542 Cell 0826920542

Ref. Client | Order# |

Notes |

Odo |

Sub Total

465.00

Deposits

-00.00

Discounts

0.00

VAT @

0.00

Owing

-465.00

R

Code/ Action	Search	<input checked="" type="checkbox"/> Name	<input checked="" type="checkbox"/> Description	<input type="checkbox"/> Composition	<input type="checkbox"/> Ingredients	<input checked="" type="checkbox"/> Criteria	Disc%	OH	Unit	Qty	Price	Total
1000012	DIESEL 50 PPM						0	-400430.76	each	20	23.2500	465.00



Stockcode	Labelname	Price	Qty	SerialNo	Size	Colour	Grade	Criteria2	Criteria3	Criteria4	Criteria5
5000624	CAPPY BURST ORANGECOKE	5.00	1		n/a	n/a		300 ML			
5000577	COCA-COLA TIN 400ml	12.50	-881		n/a	n/a	COKE TIN 400ml	COKE TIN 400ml			
5000057	COKE	13.00	8364		n/a	assorted		500ML			
5000058	COKE	10.00	0		n/a	assorted		330ML			
5000059	COKE	11.10	0		n/a	assorted		FUZE TEA 330ML			0
5000060	COKE	10.00	0		n/a	assorted		LIGHT 330ML			0

Admin or Sales Office - Transact Screen
Visual reference

Code

000.000Kg
R00.00/Kg

R00.00
R00.00

7	8	9	Receipt	Cash Up
4	5	6	Label	Account
1	2	3	TARE	Exit
0	Clear	.	Void	Loyalty
Multiply	Customer Info	Change	Tender	Enter
(Default Thermal Label)				

Retail Till Point - Transact Touch Screen
Visual reference





The Stock Screen offers all functions required to run anything from the shop to managing and retailing fuel in thousands of litres.

[Functions for ordering, managing stock levels, mass storage, label printing, stock tracing, etc. are also available.](#)

Many types of Cash Ups are catered for. Cash ups can also be performed in the back office. Mechanical totals and dips can be entered during cash up or afterwards.



From:

To: 2024/11/28

Load # Load Last Count

Cash Calculator

Bulk/ Float Tips 5 Cent 10 Cent 20 Cent 50 Cent 1 Rand 2 Rand 5 Rand 10 Rand 20 Rand 50 Rand 100 Rand 200 Rand Sub Total**00.00**

Electronic Payments



Sub Total

00.00

Store Vouchers



Sub Total

00.00

Vouchers/ Cheques



Sub Total

00.00

Disbursements/ Expenses/ Drops



Sub Total

00.00

Today's Takings

Float

Banked Cash

00.00**0.00**

Store Vouchers

Vouchers

0.00**0.00**

Electronic Payments

Disbursements/ Expenses

0.00

Returns

000.00

Day Total

Counted

Difference

Cash taken out to bank today
(Any remainder will be added to the float)**0.00**

Comments/ Reason for difference



Manual/ Remote Cashup

TRANSACTION STOCK PRODUCTS ACCOUNTS FINANCES CRM REPORTS ANALYSE TOOLS CONFIGURATION HELP Style

Details Options Mixtures Images Short Codes Price Fixes Price Lists Price Cats Price Ranges

5308 Name BORSTOL COUGH MIXTURE Show Retired Items

Compsition Special Care / Precautions Date Admin Support
Staff 2024/11/14 12:54
Description

Product Type season SubClass
MEDICAL PRODUCTS Not Selected DIY
category custom Brand
SHOP SALES Not Selected Mosh Diesel
Store Chain Size Range Manufacturer
Caltex Worcester Not Used Mosh Diesel

Supplier Name or Group Preferred supplier
R RAIMONDI'S R RAIMONDI'S
S/Code Prefix Unit Consignment Order delay
MU each No 0 0
Cost Ex Cost Inc. Price Ex Price Inc
10.00 11.50 15.00 17.25
GP: 33.33% MU: 1.50

Load Product

Search RFID

Pdct#	Code	Name	Ingredient	Supp.Code	Source Code	Short Code	Criteria	1/2	Not 0
659	DIESEL 50 PPM	1000012	-400430.76	MOSW	Diesel 50	Diesel 50	0		
1356	Diesel Electric Payout	16500114	-20000	MOSW			n/a	not applicable	
5282	Test Diesel	1000024	-3344	MOSW			n/a	not applicable	

Stock Code	Barcode	Qty	Var	OnHand	Price Ex	Price Inc	Cost Inc	Size	Colour	Grade	Criteria2	Criteria3	Criteria4	Criteria5	Criteria6	PackCode	PackQty	Pack Inc.
19000004		0	0	0	15.00	17.25	11.50	n/a	n/a								0	0

The Product Screen allows for many categorisations of Products and their variations. Pricing comes in many various types, each for a specific situation. All products for the entire business can be managed from a single screen for any store(s).



GLOBAL AND LOCAL ACCOUNTS

All account types are managed on one screen from anywhere. Accounts can be global or local. Each account can have unlimited sub accounts. A sub account could be a vehicle allowing for individual reporting, consumption calculation and management.

Subscriptions allow for individual pricing per sub account at specific locations. The same truck could get different pricing depending on where it fills up.



Software is a great combination of
artistry and engineering.



Search

Manage

Account opened 20 January 2022



111111 2211110480

Edit/ Create Accounts

Acc. Name Reg (Reg De Kock)

Title Mr.

Name Reg

ID Number 5503195099088

Cell Number 0826920542

Email reg@aliens.co.za

Admin Email reg@aliens.co.za

Account#	Account Type	Supplier
----------	--------------	----------

Disc. (%)	Credit Limit	BBFWD	Custom Category
0	20000	S	0.0000

Account Status	Loyalty	Terms	Custom Category
Active	No Loyalty	Cash	Not Selected

Custom	Staff Account
--------	---------------

Tag/ Token	0364396467
------------	------------

Swipe/ Mifare Cards	
---------------------	--

RFID		
------	--	--

Tag assigned: No	Acc. URL
------------------	----------

Web password	*****		http://www.aliens.co.za/mosh/2211110480
--------------	-------	--	---

Address	Deliveries	Staff	Locations	Currency
Last Update: 2024/09/02 14:08:36				
Address 1	53 Pringle Road			
Address 2	Tjigerhof			
Address 3	Milnerton			
City	Cape Town	Postal Code	1774	
Province	Western Cape	Country		
Postal Address 1	As Above			
Postal Address 2	As Above			
Postal Address 3	As Above			
Postal Code	1774			

Notes

Type text here for admin - Warnings etc

Main

Sub Accs

Subscribe

Account

Statement

Invoices

Property

Misc.

REPORTS

On the most detailed side of reporting, Alien offers a Custom Report with around 200 selectable and programmable filters for detailed reporting that can be grouped by various fields.



[Analyse](#) allows to report on opening and closing stock, sales rates, sales by categories and type, suppliers, etc.

Express Reports give quick answers to questions often asked. Clock In allows for staff work hour management. Fuel Reports has all the reports to manage a forecourt. The Shift End Report displays all elements to reconcile a shift. From tank sales, to electronic total variations, to payment type breakdowns, to staff sales.



General	Criteria	Products Details	Stock Details	Brands/Suppliers	Accounts	Locations	Misc/ Save
<p>Date Ranges</p> <p>From: 04 April 2025 To: 00:00:01</p> <p>To: 04 April 2025 23:59:59</p> <p><input checked="" type="radio"/> All Dates <input type="radio"/> Sale Date <input type="radio"/> As at date <input type="radio"/> Capture Date <input type="radio"/> Service Date</p> <p>Stocktake #: <input type="text"/> Cashup #: <input type="text"/></p> <p></p>		<p>Type: <input checked="" type="radio"/> Products <input type="radio"/> Transactions <input type="radio"/> Stock Levels</p> <p>Sold: <input checked="" type="radio"/> All <input type="radio"/> >0 <input type="radio"/> <0 <input type="radio"/> >0 <input type="radio"/> =0 <input type="radio"/> not 0</p> <p>Show Cost/Price @: <input checked="" type="radio"/> OH <input type="radio"/> QTY <input type="radio"/> EA</p> <p>Discount: <input checked="" type="radio"/> All <input type="radio"/> >0 <input type="radio"/> =0</p> <p>GP% max: <input type="text"/></p>	<p>Paymethods: <input checked="" type="checkbox"/> None <input type="checkbox"/> Visa <input type="checkbox"/> Debit Card <input type="checkbox"/> Master Card <input type="checkbox"/> Diners Club <input type="checkbox"/> American Express <input type="checkbox"/> Internet Transfer <input type="checkbox"/> RCS</p>	<p>On Hand: <input checked="" type="radio"/> All <input type="radio"/> <0 <input type="radio"/> >0 <input type="radio"/> =0 <input type="radio"/> not 0</p>	<p>Columns: <input type="checkbox"/> Doc.# <input type="checkbox"/> Book# <input type="checkbox"/> Event# <input type="checkbox"/> Ref. <input type="checkbox"/> Order# <input type="checkbox"/> Delivr# <input type="checkbox"/> Pumps <input type="checkbox"/> Hoses <input type="checkbox"/> GPS <input type="checkbox"/> Customer <input type="checkbox"/> Tender <input type="checkbox"/> Acc Tender <input type="checkbox"/> ItemNote <input type="checkbox"/> Till No <input type="checkbox"/> Change <input type="checkbox"/> Start <input type="checkbox"/> End <input type="checkbox"/> Odo <input type="checkbox"/> Loyalty <input type="checkbox"/> Cost Factors <input type="checkbox"/> Price Factors <input type="checkbox"/> Short code <input type="checkbox"/> Voids <input type="checkbox"/> Online: <input checked="" type="radio"/> All <input type="radio"/> Cat. <input type="checkbox"/> Pack pricing <input type="checkbox"/> Promo <input type="checkbox"/> Quotes</p>	<p>Transaction Types: <input type="checkbox"/> Show type column <input type="checkbox"/> Sales/ Returns <input type="checkbox"/> Active Laybuys <input type="checkbox"/> Complete Laybuys <input type="checkbox"/> Expenses <input type="checkbox"/> Client Payments <input type="checkbox"/> Stock Expenses <input type="checkbox"/> Disbursements <input type="checkbox"/> Cash Drops <input type="checkbox"/> Hire Books <input type="checkbox"/> Hire Out <input type="checkbox"/> Hire Re <input type="checkbox"/> Terminal <input type="checkbox"/> Shop C</p>	

TRANSACT STOCK PRODUCTS ACCOUNTS FINANCES CRM REPORTS ANALYSE TOOLS CONFIGURATION HELP

Custom Dashboard Price History Laybuys Cashup Hiring Audit Clock In Fuel Sales Stock Quotes/Dockets Price History

Cloud Reports Utility Cloud Reports Miscelaneous Cloud Reports Local Reports

Quick Reports Shift End Controller Recon. Fuel Readings ETotals Recon Wet Stock Tanks

From: 28 November 2024 00:00:01 To: 28 November 2024 15:04:04

Cashup Number: From [] To []

Stock Holding
Fuel Sales By Staff
By Grade By Tender
Fuel Sales By Day
Pumps Sales
Tank Sales
Grade Sales
By Pump By Days

Regions: All

Origin: MOSW -Bersig Service Station



All reports and grids throughout Alien can be instantly emailed, printed, exported or directly opened in Excel to save..



Alien employs custom-built asynchronous data replication in all its operations. This means that there is no reliance on central servers for any installation where everyday operations are concerned. A data service uploads transactions and other data one record at a time while downloading instructions and other products and data as necessary.

Poor connectivity does not impair Alien to stay synchronised with the host server. The system was developed over the years by having installations in very remote places in Angola, Zambia, Nigeria, etc.

Remote support is managed using the same asynchronous communications allowing 98% of support being done in minutes and online.

All installations run their own data set and can rebuild themselves from the server or vice versa during disaster recovery.

Alien will run on all versions of Windows including server additions. An Android version is in development.



Alien uses HTML based forms for Statements, Invoices, Receipts, etc. This allows for completely custom forms to business's requirements.

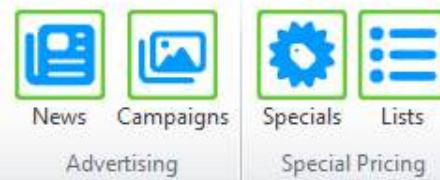
Clock In will record staff's working hours. A fingerprint scanner can be employed here and elsewhere in Alien.

Display Screens allow for custom screens to be design for advertising goods and services. You can include your business credentials and corporate visual stationery.



TRANSACTION STOCK PRODUCTS PROCESSING ACCOUNTS FINANCES CRM REPORTS ANALYSE TOOLS CONFIGURATION HELP

Style ▾



Customer Display Peripheral Devices Screen Saver

Customer Display # Display Left/Bottom 

Screen Saver   

Media List  Order File Name Transition Style Stretch Duration Speed(ms)

Activate Windows
Go to Settings to activate Windows.



Alien has integrations to eFuel, multiple tagging systems, electronic cash registers, scales, tank gauges, document scanners, till drawers, TomTom, Shell D card, price scanners, facial recognition, a myriad of RFID systems, label printers, ZK time and attendance devices, customer pole displays.

[Alien has also integrated to the Enabler and Postec pump controllers with more in the pipeline.](#)

[For label printing, Alien can use both roll and page labels.](#)

Alien is also developing an IOT micro controller device capable of functioning as a complete pump or tank gauging system. This system is equipped with HSDPA, Bluetooth, TCP/ IP, Wireless and USB. It will be capable of measuring up to 8 channels of analogue devices and 8 RS485 devices. It will be used for automated fuel vending, bowsers and tanker fuel management. With integration to a GPS provider, it will be able to report on fuel drops/ transactions and tank levels in fuel carriers in near real-time.



Configuring Alien to serve a specific client's needs is very much straightforward.

Special requirements are usually catered for by adding these within a day or so. Alien employs rolling upgrades whereby each addition to the system is released when done. There are no lengthy release dates.

All configurations can be remotely dispatched to any machine without user intervention.



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