

# COMPANY PROFILE



+971568866544 +971566033566



info@dal.ae



www.dal.ae



501, 5th Floor, Block B, Business Village Deira, Dubai, UAE.

# **About our Company**

DAL Technology is a technology-driven company based in the United Arab Emirates with locations in Dubai and Abu Dhabi. We specialize in research and development, as well as the development of IoT software and hardware, vehicle tracking and monitoring, fleet management solutions, IT infrastructure, software development, CCTV and security systems, KIOSK and POS, and payment and banking software solutions.

# **Our Experience**

- DAL is a leading technology firm that Founded in 2014 innovating products and services to improve the quality of Businesses around the world.
- An active company in Computer hardware and Software sector with various projects.
- More than 20 diversified products for the technology and IOT sectors.
- More than 1 million connections using our services and products.
- Operates in more than 8 countries as a technology solutions provider.





#### **Our Mission**

The company's mission is to help its customers navigate the ever-evolving technology landscape and stay ahead of the competition. DAL Technology's goal is to deliver cutting-edge technology and outstanding customer service, that results in long-lasting and mutually beneficial relationships with its clients.



#### **Our Team**

At DAL Technology, we are proud to have a team of experienced and knowledgeable professionals who are dedicated to delivering high-quality solutions in their respective areas of expertise.



## **Our History**

DAL Technology was founded with a vision to become a leading technology company in UAE and Middle East region, constantly working on developing new and innovative technologies that can improve the lives of our customers. Throughout the years, we have successfully developed a wide range of products and solutions in our areas of expertise, and have established ourselves as a trusted and reliable provider of technology-based services.



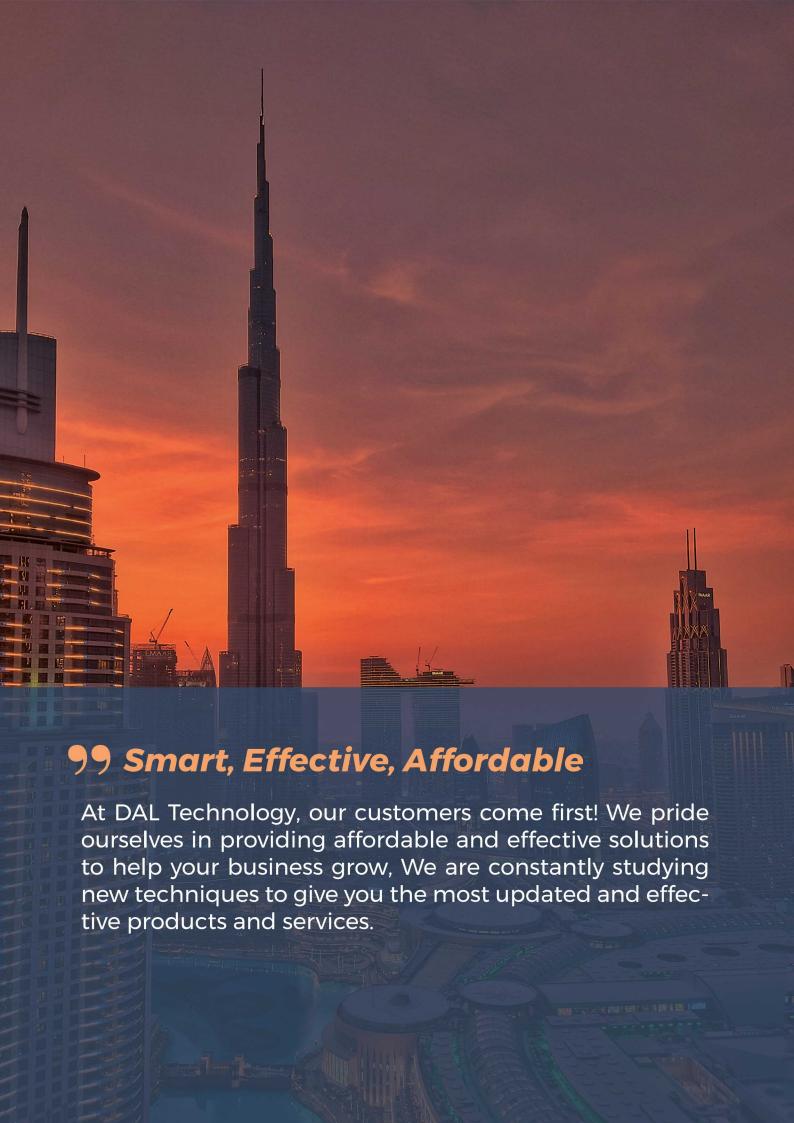
## **Our Operations**

DAL Technology operates in two locations in UAE, Dubai and Abu Dhabi, our team of experts work together to provide best quality services to our clients and partners. We are proud to have several Certifications and Licenses in areas of security, IT and Technology that ensures the safety and quality of our services and products.



#### **Future Vision**

DAL Technology is committed to continue to invest in research and development to bring new technologies to the market, and to expand its operations in UAE and Middle East region. We also aim to form strategic partnerships with key players in the technology industry, in order to stay at the forefront of technological advancements.



# **Our Divisions**

DAL Technology offers innovative solutions for multiple industries and trades















# 1. Machine to machine networking

LoRa and LoRaWAN 4G LTE connectivity Wi-Fi & Bluetooth Other M2M Protocols



# 2. Vehicle & Asset Tracking

Advance Real-time Tracking Heavy equipment & Truck solutions Fuel Monitoring



## 3. Smart Solutions

Smart home Factory monitoring solutions Site Management



# **Innovating the Internet of Things**



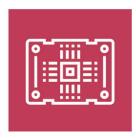
## 1. Rapid Prototyping

Our rapid prototyping service allows you to quickly and efficiently test and validate your IoT hardware concepts. We can create high-quality prototypes using a variety of materials and techniques, including 3D printing and CNC machining



## 2. Custom Firmware Development

We can develop custom firmware for your IoT devices, including device drivers, communication protocols, and security features. Our firmware is designed to be reliable, scalable, and easy to update.



# 3. PCB Design

Our team has extensive experience designing printed circuit boards (PCBs) for a wide range of IoT applications. We use state-of-the-art design tools and techniques to ensure that your PCBs are reliable, efficient, and cost-effective.





# 1. Onboarding service & digital identity

Al accelerated onboarding process Onboarding management services (monitoring, reporting and regulation compliance) Electronic identity verification



# 2. Payment/e-Wallet/B2B Kiosk

Internet Payment Gateway (IPG) Smart Switch Platform Cloud ATM Services (QR/NFC) Smart Electronic Payment Converter Mobile and Internet Banking Platform Government Collector Deposit (RMS)



# 3. Cash Deposit Machine - CDM services

CDM Bulk Deposit Solutions Smart Service Adapter for Self-Service Machines Electronic Clearing Broker Self-Service cash Recycler Solutions Currency Exchange Machines





# 1. Technology Solutions

Digital Signage LPR Systems POS, KIOSK RFID Interactive Board



#### 2. Software Services

Software Consultancy Software Development Software Integration Onboarding Solutions



# 3. IT Infrastructure Security and Surveillance

Server sizing & installation Manage service provider CCTV, Access Control Network installation Telephony Solutions (IP-PBX)

### **Our Products and Services**

DAL listen to its customers to better understand their needs and develop superior products and services.

#### **IT Infrastructure**

We help our clients to get the technology they need at a level they deserve. We provide them with expertise and services that enable them to get the best experience when using their existing infrastructure, as well as supplementing that with additional capabilities that let them reduce cost and risk while improving performance through innovation.





## **Surveillance system**

DAL Technology is a leading provider of high-end security, surveillance and communication systems. With our highly skilled team and expertise in the field, we are able to offer a quality solution that solves your security problems at the best value.





#### E-commerce

We offer a wide range of customizable ecommerce web-sites that can be tailored to your unique business. We focus on providing an easy, intuitive online shopping experience and help you create a professional, aesthetically pleasing e-commerce website design. DAL will develop a personalized experience that fits your brand, offers the best user experience and more.

#### **POS system**

DAL technology POS is a fully-featured point of sale solution for your business. From sign-up to selling in minutes, with no commitments or complicated setup, our easy to use POS system will increase your business experience. Our POS system lets you track sales and provides information on your items or services catalog. You can customize the application to make it fit your needs and give it to your staff as powerful and adjustable tools to serve your valued customers. With DAL technology integration, you have access to more solutions that provide additional support for easing all aspects of daily workflows in business.

#### **IP PBX**

With our IP PBX, you can have the benefits of a local business phone line, without having to pay for the service. It's an essential tool in any business and can enhance the efficiency of its workers.



#### LPR system

DAL's Plate Recognition technology is all about fast, ac-curate, and easy enrollment of unlimited members. Cus-tomers simply take a picture of their license plate at time of enrollment, either at the kiosk or through the mobile app. Customers can have unlimited memberships quickly and easily, no matter where they enroll: kiosk, PO S terminal, web site or thru the mobile app.





## **Digital Signs**

We can help you create the right signage to make your brand stand out. Whether it is positioned indoors or outdoors, our state-of-the-art digital signage technologies are designed to grab the attention of your consumers quickly and affordably.

Our Digital Signing Technologies:

- Video Walls
- ▶ Kiosk
- Interactive papers





#### **RFID**

We make sure that your business operations are enhanced by the use of Radio Frequency Identification tags. Our experts take care of every detail, from design to integration and back-end services. We will help you create RFID tags that are perfectly suited for your needs so that you get the most out of your technology investment.

## **Digital interactive boards**

DAL Technology is proud to offer the most advanced and dependable update of interactive Whiteboards with projectors Solutions. We provide Interactive Panels and Touchscreens that benefit from hassle-free interactivity, whether they work in government, education, or corporate sectors.

# DAL IT Our custom software development

#### **Our custom software development services**

From IT strategy consulting and comprehensive technology roadmaps to the end-to-end development of scalable solutions, Intellect soft delivers a full-cycle software development services that adapt seamlessly to your project requirements and business needs





#### **End to end IT solutions**

USER EXPERIENCE Before starting a project we ensure a natural flow by prototyping and iterating supported with research and interviews to model a user-centeric design

#### **Development**

From frontend code to complex backend and applications - we take care of all things technical.



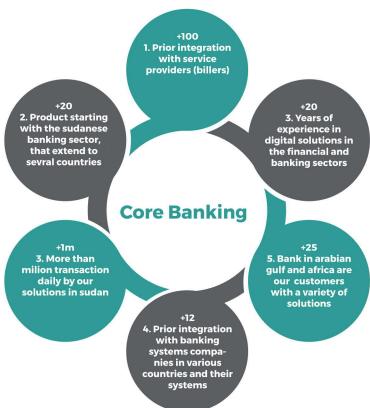


#### **Testing**

Each application is tested through automation frameworks in order to identify errors.



## **Our Experience**



#### **Products References Sample**

issms	iDCP
+11 Smart Service Adapter for Self-Service Machines	+14 Mobile and Internet Banking Platform
iECC	isms
+11 Electronic Clearing Broker	+17 SMS output
ітс	iPG
+8 Smart Switch Platform	+18 Smart Electronic Payment Converter

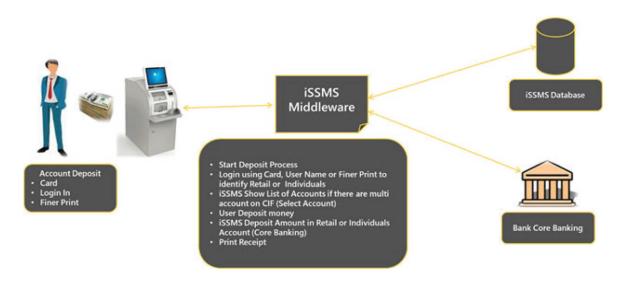


#### 1. CDM Bulk Deposit Solutions & Business Models

Automation of Banking Bulk Cash Deposit Projects Modules

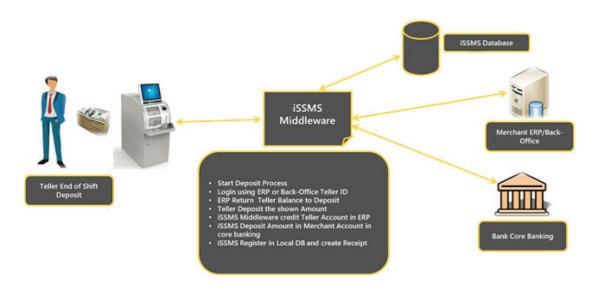


#### 2. Retails Bulk Deposit (Normal Account Deposit)

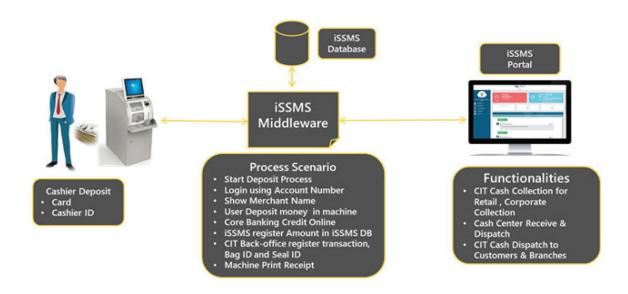




#### 3. Retails & Corporate Cashier Bulk Deposit (Shift Closing Deposit)

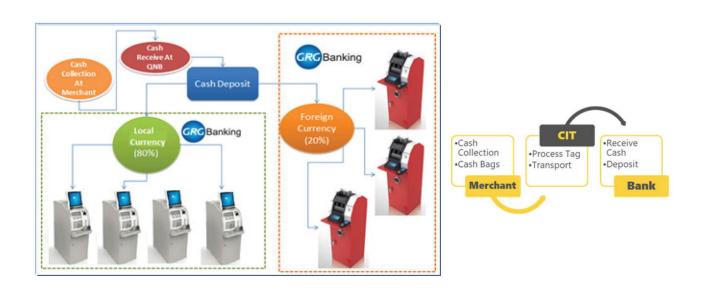


#### 4. Service Provider Cashier Deposit (Cashier Account Deposit)

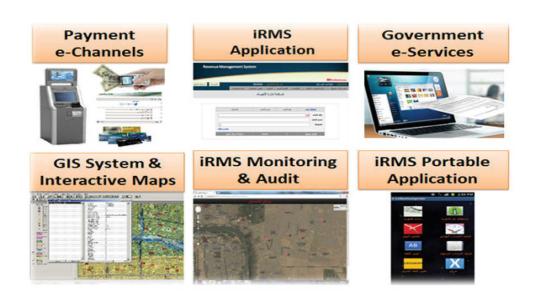




#### 5. AUTOMATION OF CASH CENTER (CIT - Bulk Cash Deposit)



# 6. Government Collector Deposit (RMS) (Fixed & Mobile Collector Day Closing Deposit)





7. CIT Portable CDM (Merchant & Corporate Deposit)

#### Portable CDM

- · Less than 30 Kg Machine
- Bag base without Safe

#### **Functionalities**

- CIT Cash Collection for Retail , Corporate
   Customers
- Cash Center for Automation of Receive & Dispatch Cash
- CIT Cash Dispatch to Customers & Branches



# 8. Recyclers New Generation Different Solutions & Business Models New Self-Service Recyclers Machines



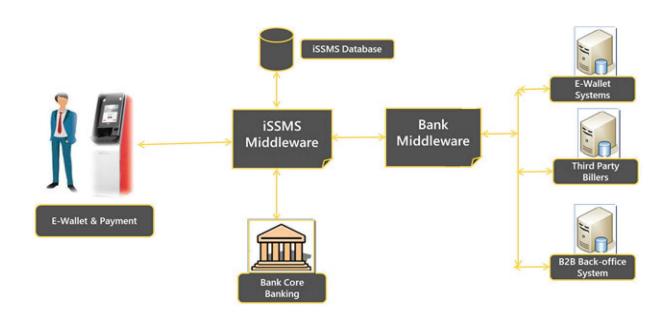




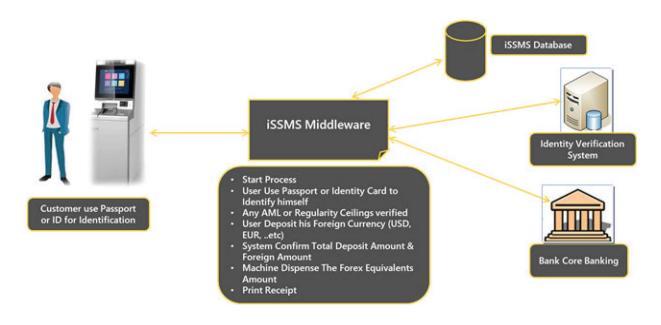




9. Payment/e-Wallet/B2B Kiosk (C2B, B2B, Corporate & Retail Services)



# 10. Foreign Currency Exchange & Withdrawal Services (Multi Foreign Currency Exchange)

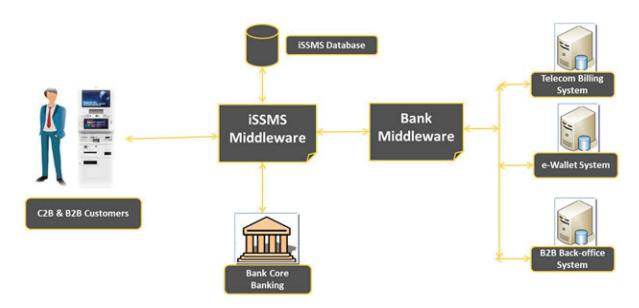




11. Telecom & e-Wallet Kiosk Service (All Telecom & e-Wallet Services in One Kiosk)

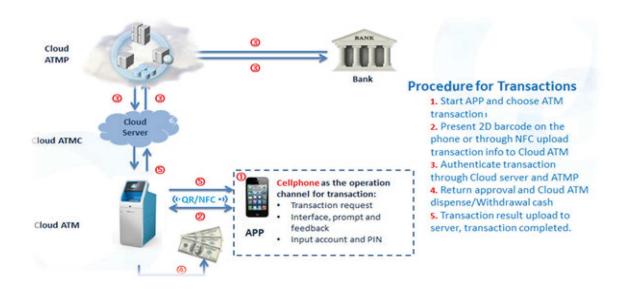


#### 12. Rich Banking ATM Machine (Cash & Non-Cash Transactions)

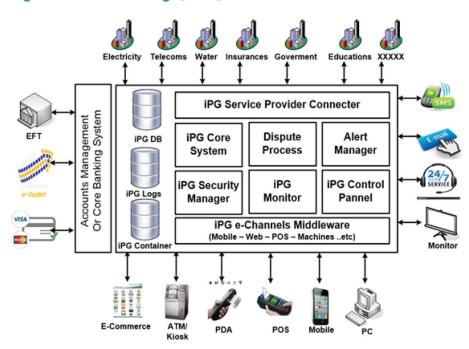




# 13. Cloud ATM Services (QR/NFC) (Bank & Non-Bank Transactions in One Kiosk)



#### 14. Internet Payment Gateway (IPG)





#### 15. NFC payments (NFC)One Kiosk)



NFC (near field communication) is a technology that allows for wireless communication between devices in close proximity to one another. In the context of POS (point of sale) systems, NFC can be used for contactless payments, where a customer can simply tap their NFC-enabled device (such as a smartphone or smartwatch) on a POS terminal to make a payment.

One potential use case for this technology is to incorporate it as a featured service for a DAL Technology company, which specializes in developing and providing POS systems. By offering NFC-based contactless payment options, the company can help merchants to accept payments more quickly and securely, which can potentially increase sales and customer satisfaction. Additionally, the company can also offer merchants additional services, such as real-time analytics, inventory management, and customer relationship management.

Furthermore, incorporating NFC as a feature in POS second display will make transactions more secure and fast as it eliminates the need for customer to physically interact with the device. This can be especially useful in situations where physical distancing is required or customer prefer contactless payment methods.



#### 16. Onboarding:



At dal technology we offer a range of identity proofing services such as document verification, face recognition, and anti-money laundering checks (AML) to ensure that customer identities are accurately verified and validated. Additionally, our risk management services provide additional background checks such as user attributes, device details, and network information, to increase confidence and reduce application fraud during the onboarding process.

Our onboarding solutions also include a range of products and services such as:

- 1. Digital account opening: Our digital account opening solutions allow customers to open new accounts online, quickly and easily, from any device.
- 2. Digital signature: Our electronic signature solutions allow customers to sign documents electronically, reducing the need for paper-based processes and improving efficiency.
- 3. Authentication: Our authentication solutions provide secure and convenient methods for customers to access their accounts and perform transactions online.
- 4. Document management: Our document management solutions allow financial institutions to store and retrieve customer documents electronically, reducing the need for physical storage and improving efficiency.



Leading the way in IoT hardware design and development, delivering innovative and secure solutions

From IT strategy consulting and comprehensive technology roadmaps to the end-to-end development of scalable solutions, Intellect soft delivers a full-cycle software development services that adapt seamlessly to your project requirements and business needs

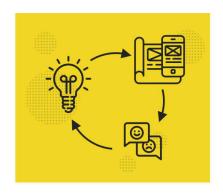


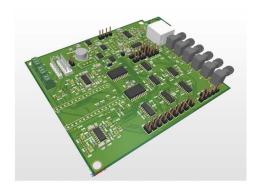
#### 1. Research and Development (R&D):

Our team of experts conducts cutting-edge research to develop new technologies and products that can be used in IoT systems.

#### 2. Prototyping & Proof of Concept (PoC):

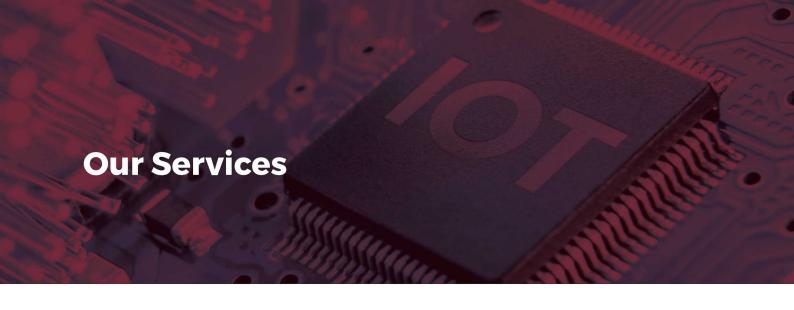
We create physical prototypes of IoT devices to test and evaluate their design and functionality, and demonstrate the feasibility of an idea.





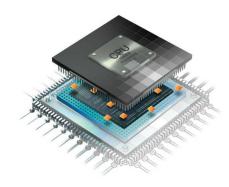
#### 3. PCB Design & Layout:

Our experienced engineers design and layout the electronic circuits and components that allow IoT devices to connect to the internet and communicate with other devices.



#### **4. Embedded Systems & Firmware Development:**

We develop the software that runs on the IoT devices, such as device drivers, firmware, and embedded systems.





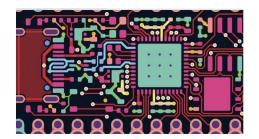
#### **5. Software Development:**

Our software engineers develop the software that runs on the IoT devices and cloud-based systems that allows the devices to store and analyze data and provide remote access and control.

#### 6. Industrial Design:

Our industrial designers design the physical devices and sensors that make up an IoT system, including the product's overall shape, appearance, and ergonomics.





#### 7. Embedded Systems Design:

We design the electronic circuits and components that allow IoT devices to connect to the internet and communicate with other devices.



#### 8. Connectivity and Wireless Design:

We design and implement the communication protocols and technologies that allow IoT devices to connect to the internet and other devices, such as Wi-Fi, Bluetooth, and cellular.





#### 9. IoT Integration and Deployment:

We integrate IoT devices and systems into existing infrastructure and deploy them in the field.



Our team is dedicated to understanding and meeting the specific needs of our clients. Comprised of experts in IoT hardware design and development, our engineers, designers, and software developers work closely together to deliver innovative and secure IoT solutions tailored to each individual client.



#### **Dal Fleet**

Dal Fleet is a web application-based Fleet management solution designed on scalable and a modular platform, Dal Fleet was developed as a solution for real world problems that companies face today from managing employs vehicles to a construction vehicle, and is built on ease of use with a simple user interface, while also provides the essential features to manage, deploy and maintain your fleet.



#### **Fleet Management Industries**



Designed specifically to manage your vehicle rental business.



Coordinate complex processes and operations from the point of origin to the point of consumption.



TO long journey driving shift requires a proper management for driver behavior, this is one of the most important tasks in logistics transportation. DALFleet have the capability to connetct various sensors to give you a wide range of monitoring and control over your vehicle's health and well-being.



The Towing Truck Solution ensures the clearest video footage with the most cost-effective solution.



Public transportation has big challenges because various situations can be happened such as robbery, over loading, traffic accidents and so on. Mobile DVR provides the multi-channel video surveillance for buses.



Gives you the tools you need to operate efficiently and effectively It is a powerful tool that can streamline your business processes, increase profits and tips, and boost both rider and driver satisfaction.



#### **Fuel Level and Radar Sensors**

DAL TECHNOLOGY, is a leading provider of fuel level sensors for a range of industries, including oil and gas. We have a long history of delivering reliable and accurate fuel level measurement solutions to our customers all around MENA region.





#### **Vehicles Trackers**

Our Vehicles tracker has the possibility to use up to 2 SIM-cards which allows to cover a connection from a multiple network provider, built with Two-way GSM voice communication between the driver and the dispatcher for more efficient work and have the functionality and opportunity to connect up to 17 digital sensors and many external.

#### Satellite tracker

High value assets tracking with no blind area on the earth. 100% global coverage and internet based fleet monitoring. Transparent two way data transmission, GSM is priority. Auto choosing communication channel, GMAIL as well as GPS/GLONASS for vehicle tracking.





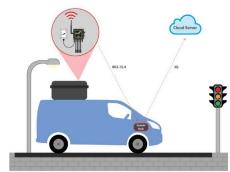
#### **MDVR and Cameras**

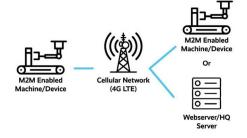
Our provided MDVR features an AI CPU with robust processing capabilities, which allows for self-improvement of detection accuracy. The MDVR also includes a Driver Monitoring System that provides precise detection of fatigue, distraction, and poor driving habits. Additionally, the MDVR is equipped with an Advanced Driving Assisting System that interprets the vehicle's surroundings.



#### **Vehicle Monitoring with sensors**

We provide sensors to improve the safety and efficiency of the vehicle by monitoring various aspects of the vehicle's performance and alerting the driver or the fleet admin to take corrective action as necessary.





#### **Machine-to-Machine**

our company specializes in providing various solutions for machine-to-machine (M2M) communication, such as wireless communication using technologies such as Wi-Fi, Bluetooth, cellular networks like 3G, 4G, 5G and LoRa - LoRaWAN networks for long distances. We work closely with our clients to determine the best solution for their specific needs and requirements.

#### **Smart home**

DAL TECHNOLOGY specializes in providing smart home products and services that connect and automate various devices and appliances in the home, allowing for greater control and convenience. Our solutions include smart thermostats, lighting, security systems, and appliances that can be controlled and monitored through a mobile application or voice commands. We provide a range of services from consultation, installation and integration to maintenance, support, and monitoring. Our goal is to make every house in UAE smart and provide them with a seamless and convenient experience.



- Intelligent living, at your fingertips
- Transform your house into a smart home
- Experience the future of home living
- ▶ Upgrade your home's intelligence
- > Smarten up your home, simplify your life
- Your home, smarter than ever
- Innovative technology for modern living



Are devices and appliances that can be controlled and monitored remotely through a smartphone or a web-based interface. These products typically use WiFi or Bluetooth technology to connect to the internet and can be integrated with other smart devices to create a connected home ecosystem. Some examples of smart home products and features include:



#### 1. Smart thermostat:

A device that can be controlled remotely to adjust the temperature of a home, schedule temperature changes, and monitor energy usage.

#### 2. Smart lighting:

LED bulbs or smart plugs that can be controlled remotely to turn lights on or off, dim or brighten them, and schedule lighting changes.





#### 3. Smart security cameras:

Cameras that can be accessed remotely to monitor a home and receive alerts if motion is detected.



#### 4. Smart locks:

Electronic locks that can be controlled remotely to lock or unlock doors, grant access to guests, and track who comes and goes.





#### 5. Smart appliances

Appliances like refrigerators, ovens, washing machines, and dryers that can be controlled remotely through a smartphone.

#### 6. Smart speakers:

Devices like Amazon Echo and Google Home that can be controlled through voice commands, to play music, set alarms, check news and weather, and control other smart devices.





#### 7. Smart home hubs:

A central device that connects to all the smart devices in a home and allows them to communicate with each other and be controlled through a single app.





Smart home garden control refers to the use of technology to remotely monitor and control various aspects of a home garden. This can include products and features such as:



## **DAL IT Use case**

# **ANPR-POS Integration**

Owners and operators can improve customer experience by integrating an ANPR/LPR sensor system with Point of Sale (POS Payment Terminals). These speeds up the payment process and provides convenience for both customers and car wash employees.



# DAL IT Use case RFID

Ineffective weapons monitoring systems lead to erroneous inventory counts, voids in a weapon's usage history — and even lost weapons entering into the wrong hands.

DAL Technology RFID technology assist your organization in charge of monitoring the life cycle of a weapon by freeing staff from onerous data-recording activities while boosting the availability and integrity of weapons intelligence.



## **DAL Fintech Use case:**

## **KYC Use Cases**



**Banks** 



Credit unions



Insurance firms



Mortgage companies



Online investment and loan firms



Gambling sites and casinos



Travel industry



Healthcare



**Telecommunication** 



Crowdfunding



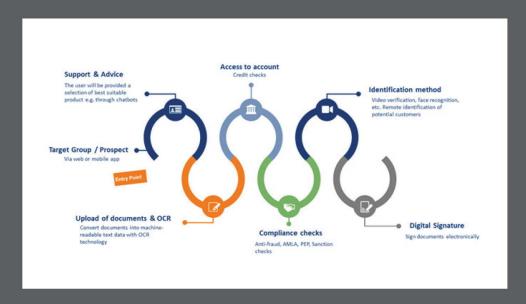
Digital wallet providers

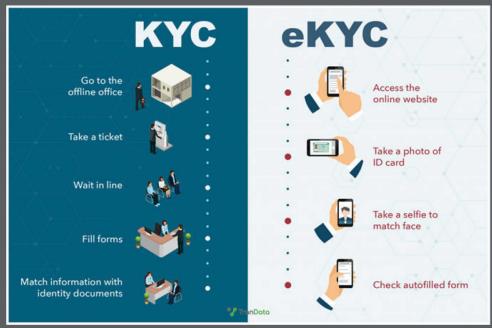


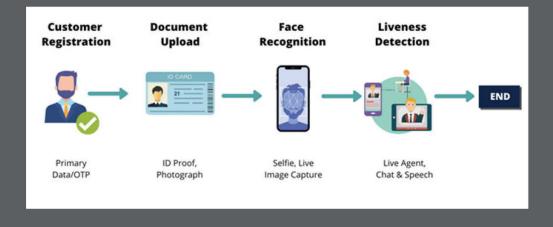
Crypto exchanges



## **DAL Fintech Use case**







## **DALIOT Use case**

## **Emirate Shooting Equipment BaseBoard**

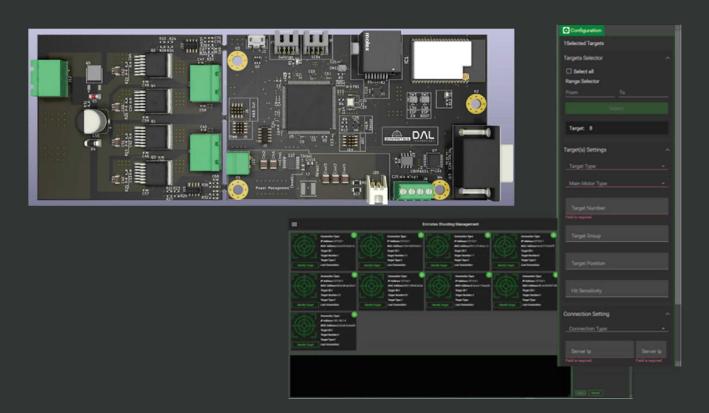
The EMSE Target Board is designed to run POPUP targets, monorail targets, Vehicle targets and POLYRACK targets.

#### **The Main Board features:**

- 1. Wi-fi & Bluetooth Module
- 2. Vibrometer
- 3. Impact Sensor
- 4. Wired Connectivity up to 1.2Km
- 5. Humidity and temperature
- 6. LoRa/LoRaWAN
- 7. Servo Motor interface and driver circuit
- 8. EMSE Management Software

#### The DC Motor Module Board features:

- 1. Can driver up to 250W continuous per motor (12-24v)
- 2. Motor speed control via PWM
- 3. Over Temperature and over current Protection
- 4. Battery reverse polarity protection
- 5. Can be extended to handle 3 motors for 3 Axis
- 6. Can easily extend to Drive BLDC Servo motor



## **DAL IOT Use case**

## **DAL IOT Smart Plug**

TDAL Smart Plug is a fully functional power meter capable of transmitting its data over a Bluetooth® interface to an Android phone or tablet. It is designed to stand between the wall outlet and any electronic device that the user wants to control and monitor remotely.

The system calculates the real-time values of the RMS current, RMS voltage, frequency, active, reactive and apparent power, power factor and also the energy consumption.

- 1. Power Monitoring Accuracy capable of 0.1% error
- 2. wireless connectivity
- 3. Bluetooth low energy (BLE) 4.1 connectivity for control and metering panel
- 4. Active, Reactive, Apparent Power
- 5. True RMS Current, RMS Voltage
- 6. Line Frequency, Power Factor
- 7. Automatic Event through Fast Voltage Surge Detection
- 8. Fast Calibration Routines
- 9. Low-Drift Internal Voltage Reference: 10 ppm/°C typical
- 10. Extended Temperature Range -40°C to +125°C
- 11. AEC-Q100 qualified



### DAL IOT Use case

## Radiosonde for Meteorological Agency

The Radiosonde is an instrument package carried into the atmosphere to measures atmospheric parameters. The Radiosonde use the radio to communicates with computer that stores all the variables in real time. The Radiosonde measure: Altitude, Pressure, Temperature, Relative Humidity. And use GPS mechanisms for determining Wind speed and Wind direction, with using various sensors and components.

#### **Pressure Sensors**

Range: 10 – 1200 mbar

Accuracy at 25°C, 750 mbar: -1.5-+1.5 mbar

Resolution: 0.054 mbar

#### **Temperature Sensors**

Type: platinum RTD Range: -70 - 200 °C

Response Time (1000 mbar 6m/s): < 1s

#### **Transmitter**

Frequency band 400 MHz Frequency Range: 400 - 406 MHz

Frequency band 1660 MHz Frequency Range: 1660 -1670 MHz

Modulation: GFSK

Transmitter Power: 17 dbm

Transmit Cycle: 1s

#### **Humidity Sensors**

Range: 0 - 100% rH Accuracy: ± 1.8% rH Resolution: ± 0.03% rH

#### GPS

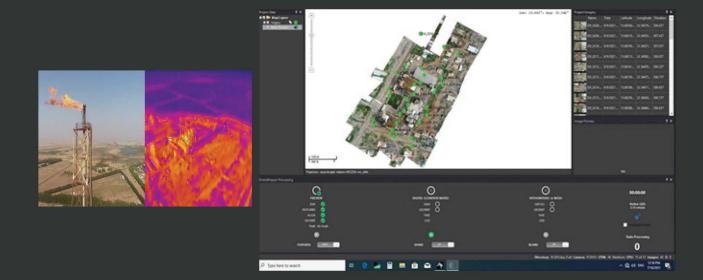
Horizontal position accuracy: 2.0 - 2.5 m Velocity accuracy (Wind Speed): 0.1 m/s Heading accuracy (Wind Direction): 0.5 degrees Altitude limits: 50.000 m



# DAL IOT Use case DRONE

TDesign and manufacturing drone's surveillance and arial mapping

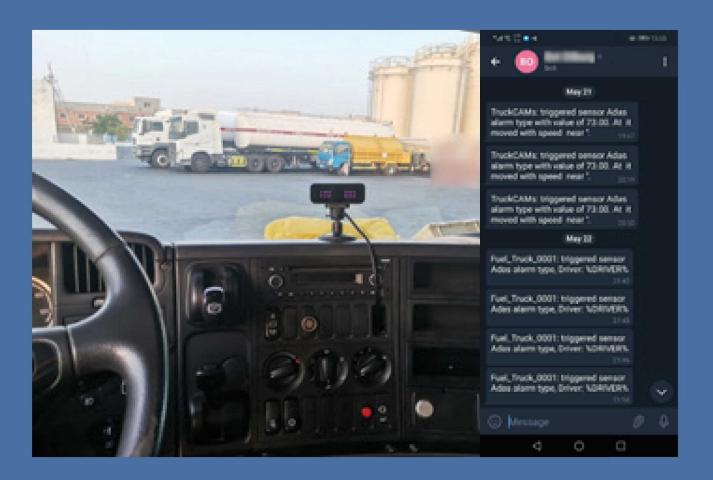
- Agriculture sector
- Irrigation evaluation
- Power line construction planning
- Security services
- Oil and gas inspections
- ➤ Crop protection (spraying/thermal and IR night vision/day monitoring)



### **DAL Telematics Use case**

## An oil and gas transporting company had an issue with fuel theft control

We provided a solution for tracking the fuel level of tankers by using fuel level sensors, along with surveillance cameras that are integrated with DMS and ADAS. The system triggers a real-time server event when it detects poor driving behavior or activity outside of a designated geo-fenced area. The system is configured to notify fleet operators through online notifications, pop-up windows, email, SMS, and Telegram.



### **DAL Telematics Use case**

# A towing service company needed a solution for managing and monitoring orders

We provided a logistics solution that manages orders and assigns drivers and trucks, as well as a monitoring solution that includes a towing detection sensor to detect towing times and locations.



## **DAL Telematics Use case**

## A Smart gas cylinder company needed a solution for communication

We provided a LoRaWAN solution with a mesh network configuration that is capable of covering remote and off grid areas.



## **Some of Our Clients**













الإمارات العربية المتحدة وزارة السداخلي















الإمارات العربية المتحدة UNITED ARAB EMIRATES الــمجـــلــس الأعـــلى للأمن الــــــوطــني THE SUPREME COUNCIL FOR NATIONAL SECURITY الهيئة الوطنية لإدارة الطوارئ والأزمــات والكــوارث National Emergency Crisis and Disaster Management Authority









البنك الهربي ARAB BANK







## **Certified by**



















## Some of our partners







































