DAL
TECHNOLOGY

Innovating the Future
COMPANY
PROFILE

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About our Company

DAL Technology is a globally recognized technology group headquartered in the United Kingdom, with a strong operational presence across the Middle East, Africa, and beyond. Since its inception in 2014, DAL has been at the forefront of digital innovation, delivering cutting-edge solutions across IoT, AI, cloud computing, telematics, and financial

technology.

With more than 20 diversified products, over 1 million daily transactions, and a footprint in 8+ countries, DAL Technology empowers businesses, governments, and institutions to thrive in a digital-first world.

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.
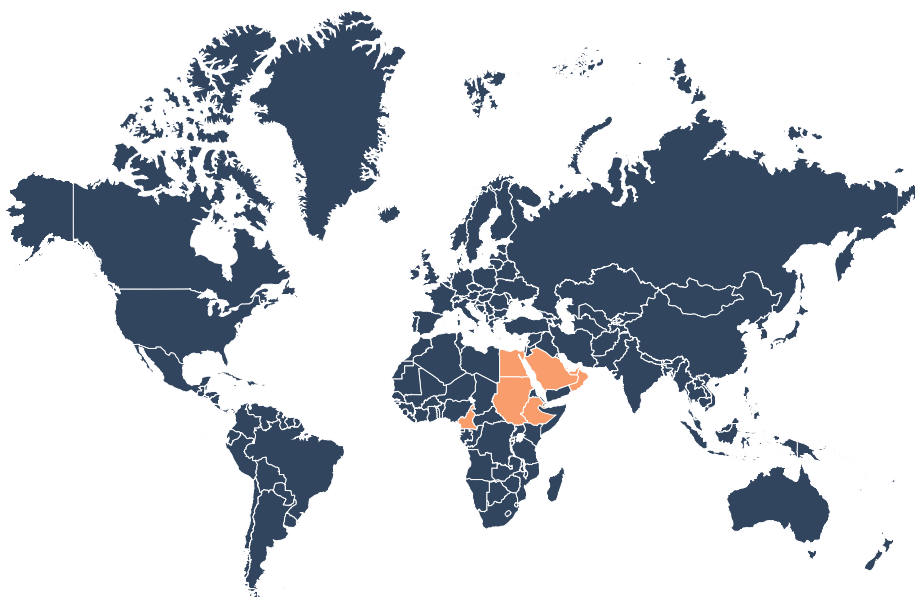
Our Mission

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.

99 *Smart, Effective, Affordable*

At DAL Technology, our customers come first! We pride ourselves in providing affordable and effective solutions to help your business grow, We are constantly studying new techniques to give you the most updated and effective products and services.

Our Divisions

DAL Technology offers innovative solutions for multiple industries and trades

Innovative solutions for financial management, through cutting-edge technology.

1. DAL Cloud
Secure Infrastructure Platform

2. DAL Connect
Banking Integration Hub

3. DAL ID
Smart Digital Onboarding & Ekyc

DAL TECHNOLOGY FinTech

Innovative solutions for financial management, through cutting-edge technology.

4.DAL Talk
Unified Customer Communication

5.DAL AppFlow
Application Publishing & Management

6. DAL Voice
Enterprise PBX System

Dal fintects
Our Products and Services

DAL Cloud

1. We provide secure and high-performance hosting through local and regional data centers (UAE – USA – Germany – Singapore) with 99.9% uptime guarantee.

2. Our services include managed infrastructure to ensure stable and efficient operations, with full scalability to meet the bank's needs.

3. Our solutions offer high-level security with complete data encryption and 24/7 technical support to monitor performance and handle any issues.
All of this is delivered via DAL Cloud, providing a reliable and secure environment for your banking applications and sensitive data.
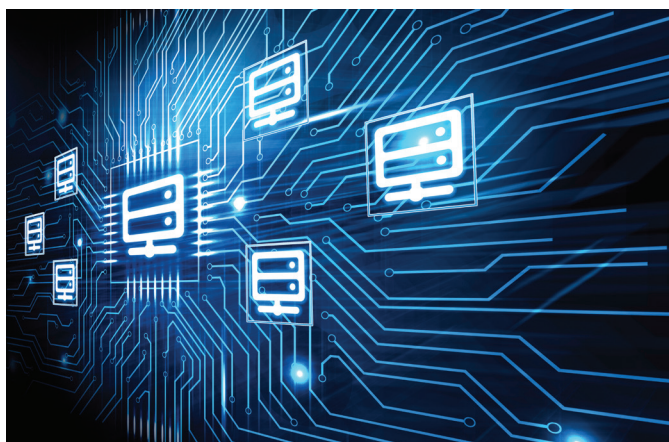
DAL Connect

1. A middleware solution connecting core banking systems with customer platforms and other applications.

2. Enables secure and reliable data and process exchange between different systems.

3. Provides unified APIs to accelerate integration with external systems and reduce technical complexity.

4. Helps improve customer experience and speed up digital services for banks and organizations.

Our Products and Services

DAL ID

1. Simplifies digital account opening with AI-powered identity verification (face & document analysis) and secure e-signatures.

2. Full customer journey management: registration → verification → activation.

3. Intuitive interfaces for bank staff and customers, ensuring smooth and efficient onboarding.

4. Compliance dashboards and reports for KYC/AML monitoring, audit, and risk management.

5. Scalable, secure, and reliable onboarding experience for modern banking needs.
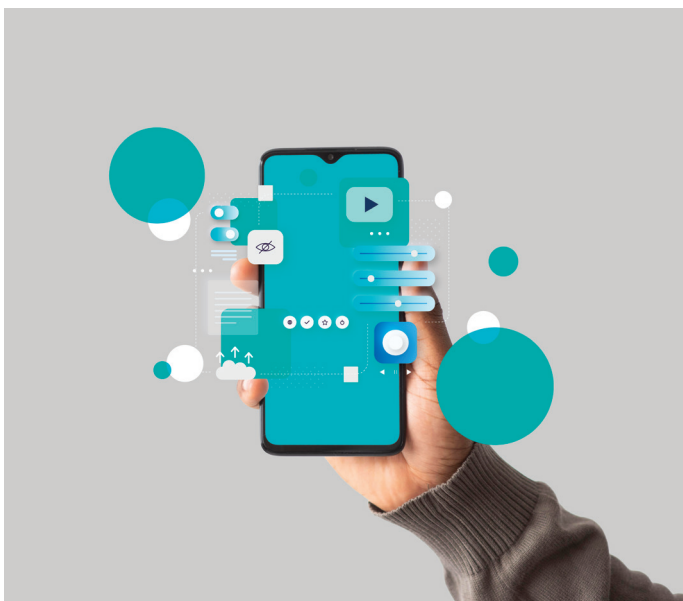
DAL Talk

1. Unified customer interaction across mobile, WhatsApp, Email, Telegram, and apps.

2. Seamless integration with core banking, CRM, and payment gateways.

3. Real-time dashboards and reports for monitoring, SLA tracking, and KPI analysis.

4. Enhanced customer experience, fast response, increased engagement, and loyalty.

Our Products and Services

DAL App Flow

Providing comprehensive services to ensure apps comply with Google Play and Apple App Store requirements, including policy review, quality testing, and performance verification before publishing to guarantee an excellent user experience.

DAL Voice

1.Flexible and secure internal and external communication with smart call routing, IVR, and call recording.

2. Deployment options: On-Premises, IP PBX, and Cloud PBX to suit organizational needs.

3. Easy branch connectivity and enhanced customer experience with full CRM / Helpdesk integration.

4. Smart reporting and service quality monitoring to ensure business continuity and operational efficiency.

5. Remote communication support with full call encryption.

# Other Services

Infrastructure Services Security

Comprehensive infrastructure services that support daily
operations by providing networks, servers, databases, and
storage securely and reliably, ensuring business continuity and
operational efficiency.

Security Services

Comprehensive security services safeguarding data and systems
from digital threats through firewalls, intrusion
detection/prevention systems (IDS/IPS), and data encryption,
ensuring compliance and protection of sensitive information.

Our Products and Services
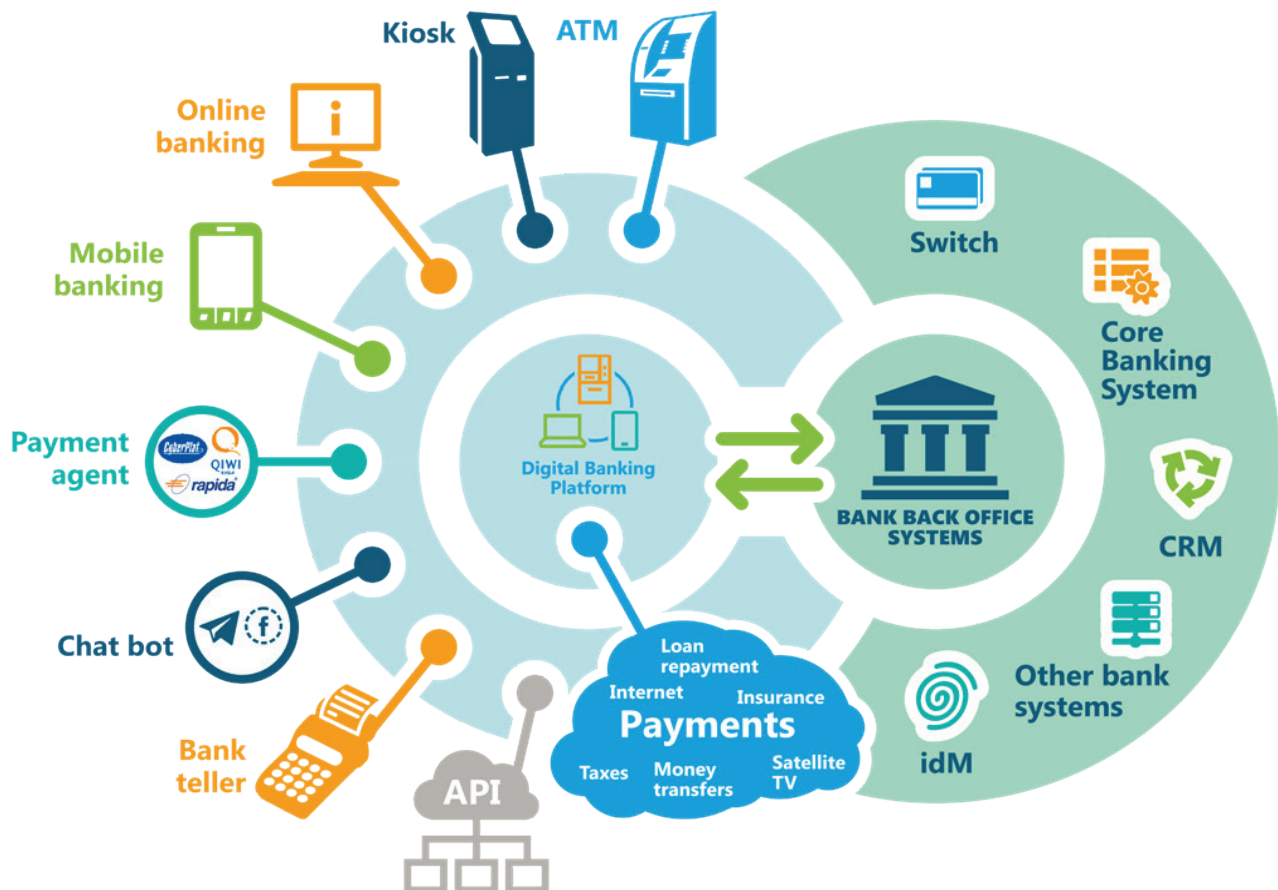
Use Cases

1.Secure Cloud Hosting Services for Banks:

DAL Technology delivered end-to-end cloud hosting services for several Sudanese financial institutions, including:

- Animal Resources Bank
- Al Salam Bank
- Nile Bank

The solutions covered:

- Infrastructure management
- Backup and disaster recovery
- Data protection and regulatory compliance

These implementations demonstrated the reliability of DAL Cloud, achieving availability levels exceeding 99% for mission-critical banking systems.

Use Cases

2. WhatsApp Business for Banks – Intelligent Customer Engagement

DAL Technology enabled Sudanese banks to communicate directly with their customers through official WhatsApp Business channels, including:

- Nile Bank
- Animal Resources Bank

The service provided:

- Transaction alerts
- Interactive inquiry services
- Marketing and communication campaigns
- Full compliance with Meta's policies and standards

This initiative significantly improved customer engagement and offered a fast, secure communication channel for the banks.

Use Cases

## 3.Mobile App Publishing & Compliance for Banking Applications

DAL Technology partnered with multiple banks to ensure their mobile applications were successfully published on Google Play and the Apple App Store while meeting strict financial and regulatory requirements. Banks included:

Animal Resources Bank
Nile Bank
Al Salam Bank

The services included:

-Preparing app store submission requirements
-Reviewing permissions and security settings
-Ensuring compliance with banking content policies
-Managing updates and ongoing maintenance

The result was stable, compliant applications that were approved almost immediately upon submission.
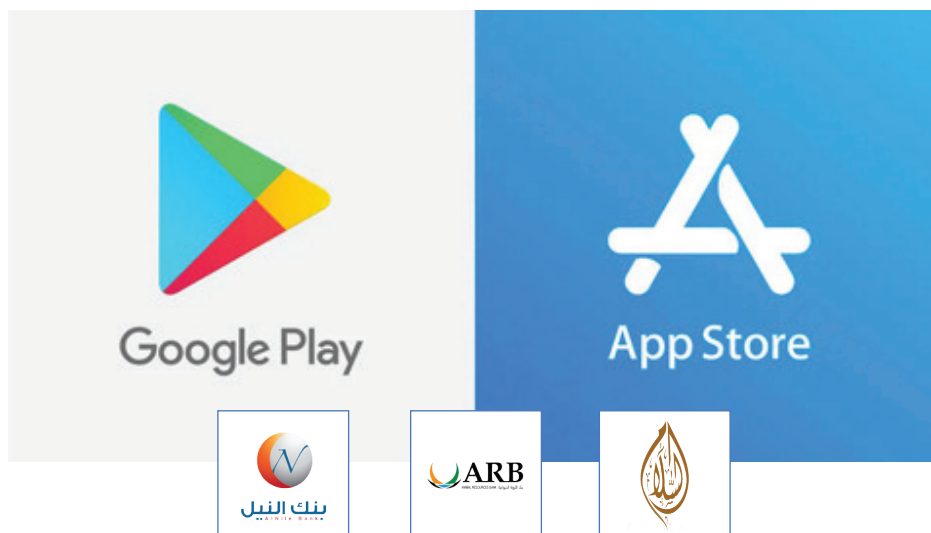
Dal Cloud listens first, analyzes carefully, and builds solutions that fit the customer, not force the customer to fit the cloud.

Dal Private Cloud – Security, Privacy & Reliability

Dal Cloud provides its customers with a dedicated Private Cloud environment designed to meet the highest international

Key Guarantees for Our Customers

-Dedicated Infrastructure: Your data runs on more than 7 enter prise-grade servers, built with advanced features and high standards for uptime and reliability.

-On-the-Spot Backup: Automatic, real-time backup is performed in less than a second, ensuring your business never loses critical data.

-Zero Access Policy: Dal has no access to your data. Only you control your information.

-Data Privacy First: We safeguard your information with end-to-end encryption and strict compliance with GDPR, PCI DSS, ISO 27001.
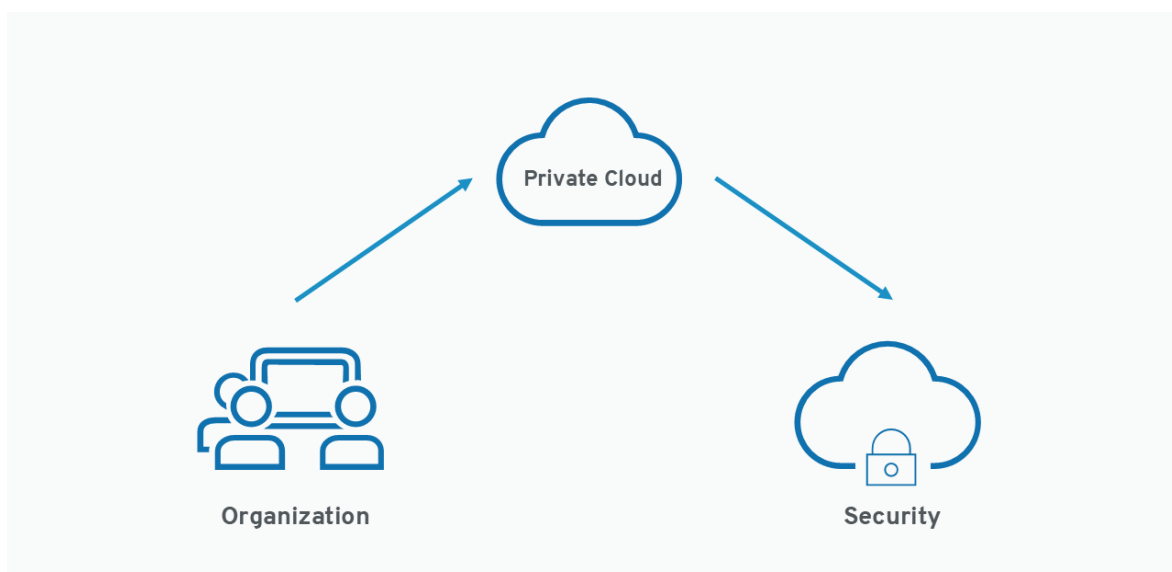
Dal Cloud

Dal Cloud listens first, analyzes carefully, and builds solutions that fit the customer, not force the customer to fit the cloud.

Why It Matters for Banks & Institutions

-Guaranteed Continuity: Mission-critical operations (e.g., banking transactions, KYC data, compliance systems) are protected with 99.9% uptime SLA.

-Regulatory Compliance: Servers located in Sudan, UAE, Singapore, and Germany ensure that data residency requirements are met.

-Dal Cloud guarantees privacy, confidentiality, and security at every level.

Dal Private Cloud = Full Control + Maximum Security + Instant Backup.

Key Features:

1.Scalability & Flexibility
Pay-as-you-grow model suitable for startups, SMEs, and enterprises.

2.Advanced Security
End-to-end encryption, firewalls, and multi-factor authentication.

3.Local & Global Reach
Regional data centers with low latency.

4.Integration Ready
Works seamlessly with ERP, CRM, FinTech, and custom applications.

5.Disaster Recovery
Reliable backup and recovery systems.
24/7 Support – Dedicated customer support and account management.

Dal Cloud

Customer Benefits

Direct Cost Savings	- Eliminate upfront capital investment in data centers, servers, and IT hardware. - Reduce IT maintenance, energy, and staffing costs by up to 40% annually. - Pay only for actual usage (no wasted infrastructure).
Operational Efficiency	- Faster deployment of digital banking services. - 99.9% uptime ensures no service disruption for customers.
Compliance & Risk Management	- Meet international compliance standards (GDPR, PCI DSS, ISO). - Automated updates and patches reduce cybersecurity risks.
Innovation & Growth	- Free resources to focus on launching new digital banking services. - Enable AI-driven customer support, mobile banking, and future fintech innovation.

Pricing Model

Pay-as-you-go	Subscription Plans	Custom Bank Packages
Flexible billing based on actual usage	Fixed monthly/annual contracts with predictable OPEX for budgeting	Tailored for banks requiring large-scale, compliant infrastructure

Dal Cloud

Cost Savings:

Cost Category	Savings Dal Cloud (per
Data Center Setup (CapEx)	100% saved
IT Hardware & Licensing	40% saved
IT Staff & Maintenance	50% saved
Energy & Facilities (Power, AC)	70% saved
Disaster Recovery & Backup	100% saved
Total Annual Cost	~50% less

COST DOWN

Dal Cloud & Employee Management Benefits

With Dal Cloud

- Only skilled employee can manage the entire IT environment using Dal Cloud's automated dashboard.

- Cloud automation handles updates, security patches, scaling, and backup. Employees can shift focus to strategic initiatives.

- 50–70% reduction in IT staffing costs, as teams can be streamlined.

- Staff can focus on data analytics, digital transformation, customer experience, AI projects, and business innovation.

Key Employee Value with Dal Cloud

Staff Efficiency: 1 IT professional can manage what used to take 6–7.

Cost Reduction: Lower salary and overtime expenses.

Talent Utilization: Free employees from repetitive tasks → allow them to contribute to strategic, creative projects (digital banking apps, customer personalization, new product launches).

Business Agility: Companies and institutions become more future-focused instead of stuck in maintenance mode.

Dal Cloud

Dal Cloud – Global Data Center Locations

Dal Cloud allows banks, companies, and institutions to decide where their servers and data should be hosted – whether in their home country or across Dal's international network.

Location: **BH Bahrain (Main HQ)**   **AE UAE**   **SG Singapore**   **DE Germany**

Flexible Hosting – "Your Cloud, Your Choice"

- Dal Cloud builds servers where you need them – ensuring compliance with local regulations (important for banks, governments, and institutions).

- Whether a company wants on-premise private servers in Sudan, or scalable hybrid solutions across UAE and Germany, Dal Cloud adapts to client needs.

- Customers can select one location or multiple (multi-region hosting) for better performance and disaster recovery.

"With Dal Cloud, you decide where your servers live – Sudan, UAE, Singapore, or Germany. We bring the cloud closer to you, ensuring compliance, security, and performance."

How Dal Cloud Reduces Risk for Companies & Institutions

1- Operational Risk

- **Without Cloud:** Companies run the risk of downtime, hardware failures, and service disruption.
- **With Dal Cloud:** Dal guarantees 99.9% uptime, with automated failover and instant backup (less than 1 second) — minimizing operational risk

2- Security Risk

- **Without Cloud:** On-premise servers are vulnerable to cyberattacks, human error, or poor patching.
- **With Dal Cloud:** Dal applies bank-grade security — firewalls, encryption, intrusion detection, and 24/7 monitoring.
- **Zero Access Policy:** Dal has no access to customer data → full privacy control stays with the client.

3- Compliance & Legal Risk

- **Without Cloud:** Companies risk fines or penalties if data isn't stored in compliance with local regulations.
- **With Dal Cloud:** Data can be hosted in Sudan, UAE, Singapore, or Germany to meet local laws & international standards (GDPR, ISO 27001, PCI DSS).

4- Financial Risk

- **Without Cloud:** High CapEx (servers, data centers) and unpredictable IT costs.
- **With Dal Cloud:** Clear pricing models (pay-as-you-go, subscription, enterprise packages) with 55–65% cost savings → no hidden costs.

5- Human Resource Risk

- **Without Cloud:** Requires 6–7 IT employees just for repetitive server maintenance.
- **With Dal Cloud:** 1 employee can manage the environment, while others shift to strategic, creative roles (analytics, digital growth).

Current Institution vs. Dal Cloud

Current Institution Pain	Dal Cloud Solution
Risk of data loss	Dal Cloud is 100% responsible for protecting and backing up your data in real time.
Fear of limited support	Dal provides 24/7 dedicated support and full communication guarantee.
High capital investment in servers & infrastructure	Dal saves you 20x in time and cost through flexible OPEX (pay-as-you- go).
Risk of system failure during heavy traffic	Dal manages the load – no downtime, no disruption, even during peak demand.
IT teams stuck in repetitive work	Dal enables smart investment, smart time management, smart data storage & management.
Complexity in expansion	With Dal, just call or email → we expand resources instantly.
Generic, rigid solutions	Dal delivers 100% feature-rich and 100% customized solutions tailored to your institution.

DAL Technology Telematics

Providing advanced telematics solutions and services for fleet management, vehicle tracking, and driver behavior analysis to optimize performance and increase efficiency for businesses. (telematics)
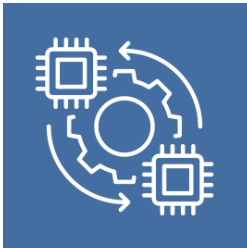
1. Machine to machine networking

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

DAL Telematics
Our Products and Services

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.

The 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 connect 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.

Telematics Products

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.
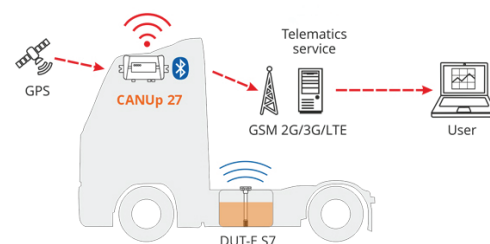
Vehicles Trackers

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.

Telematics Products

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.
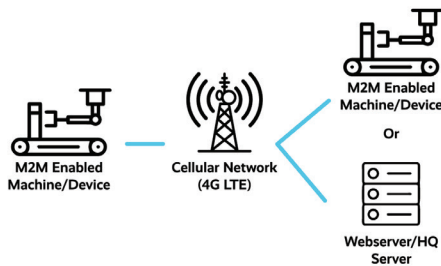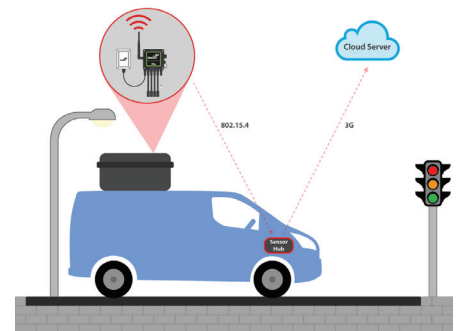
Machine-to-Machine

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

Telematics Products

Smart home products

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.

Telematics Products

Smart home products

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.

Telematics Products

Smart home products

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:

1. Smart irrigation systems:

Automated watering schedules and remote control to conserve water and improve plant health.

2. Smart soil sensors:

Remote monitoring of soil conditions and plant health to make informed decisions about watering and other gardening tasks.

3. Smart garden lights:

Remote control of lighting to create the perfect lighting conditions for plants.

4. Smart weather monitoring:

Remote monitoring of weather conditions to make informed decisions about watering and other gardening tasks.

5. Smart pest control:

Automated systems to detect and control pests in the garden.

6. Smart Garden hubs :

A central device to connect all the smart devices in a garden and be controlled through a single app.

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.
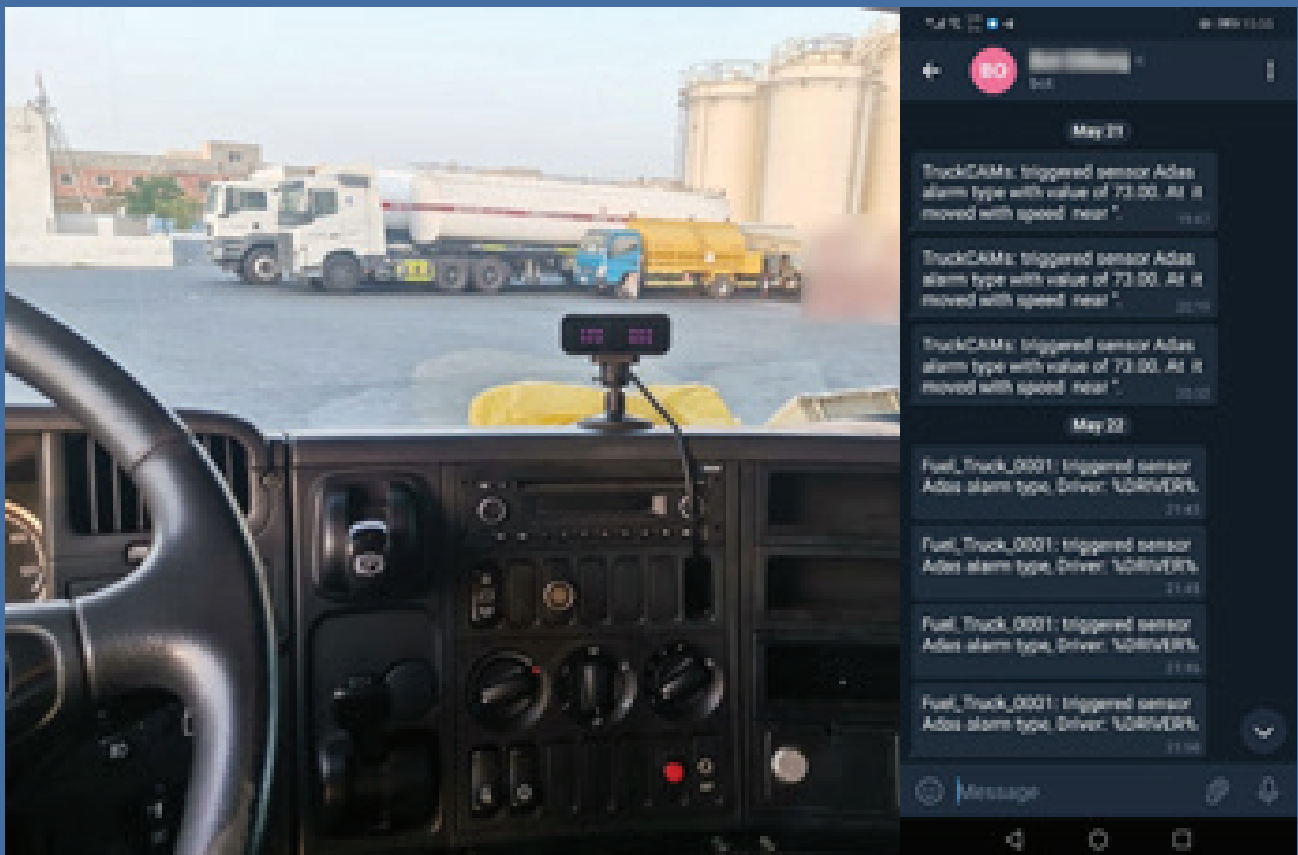
DAL Telematics Use case

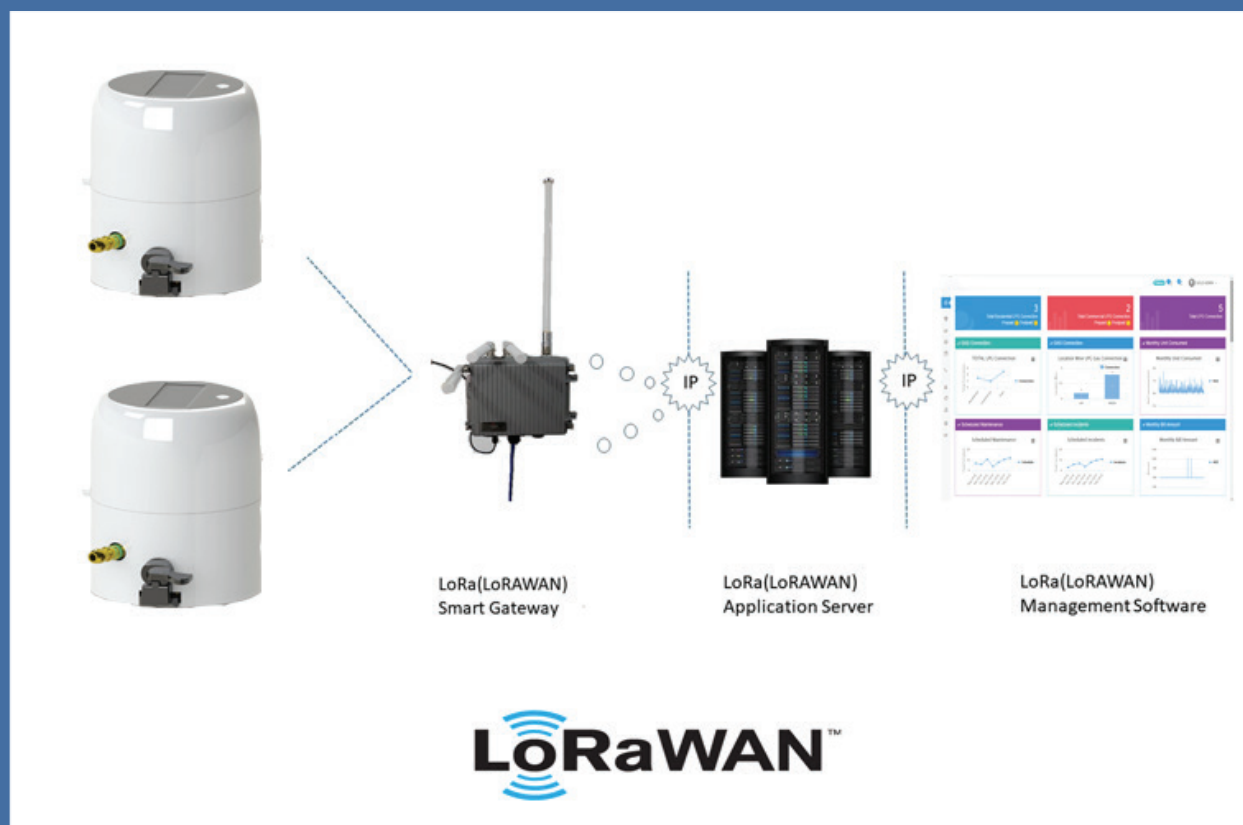## A towing service company needed a solution for managing and monitoring orders

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.

Side Cameras

Driver Dash Screen

Tow detection

Door Sensor

CAN-bus Readings

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.

LoRa(LoRAWAN)
Smart Gateway

LoRa(LoRAWAN)
Application Server

LoRa(LoRAWAN)
Management Software

LoRaWAN™

DAL AI is the dedicated Artificial Intelligence division of DAL Technology, focused on developing intelligent systems that enhance speed, accuracy, and operational efficiency. We turn data into decisions and processes into smart, automated workflows.

DAL AI — The Engine of Intelligent Growth

DAL AI builds on this solid IT foundation by introducing AI, Machine Learning, and advanced automation across all business layers.
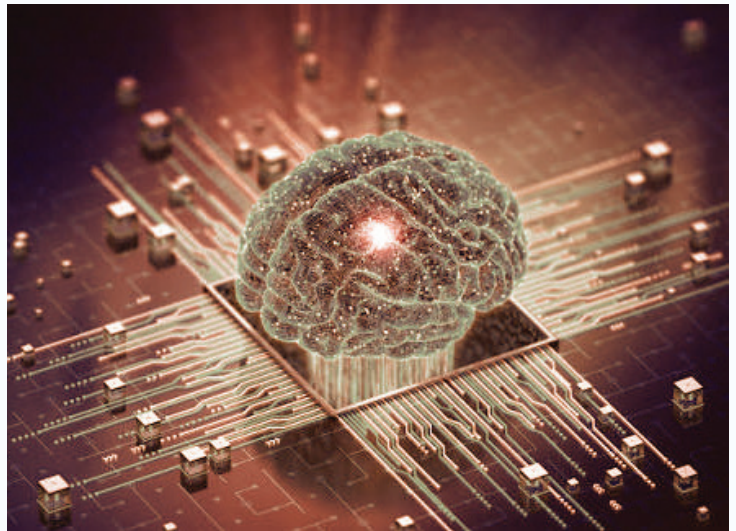
Core Focus:

Intelligent system development

- Predictive analytics
- Hyper-automation
- AI-driven decision support

Value Proposition:
Faster operations, improved accuracy, optimized performance, and new growth opportunities powered by data.

In simple terms:

- **DAL IT** supported the system.
- **DAL AI** makes the system think.

DAL AI Service Pillars

DAL AI delivers a comprehensive portfolio of intelligent solutions across five key pillars:

1. Intelligent Automation & Workflow Optimization

Automating complex and repetitive tasks to achieve hyper-efficiency and reduce errors.
Technologies: RPA, n8n, AI workflow engines, Intelligent Document Processing (IDP)

2. Advanced Data Analytics & Machine Learning

Transforming data into predictive and prescriptive insights for strategic decisionmaking.
Technologies: Predictive models, Deep Learning, BI, Data visualization, Customer analytics

DAL AI Service Pillars

3. Digital Identity & Compliance (eKYC)

Secure, instant onboarding and identity verification with full regulatory compliance.
Technologies: Face recognition, Liveness detection, Document validation, AML checks
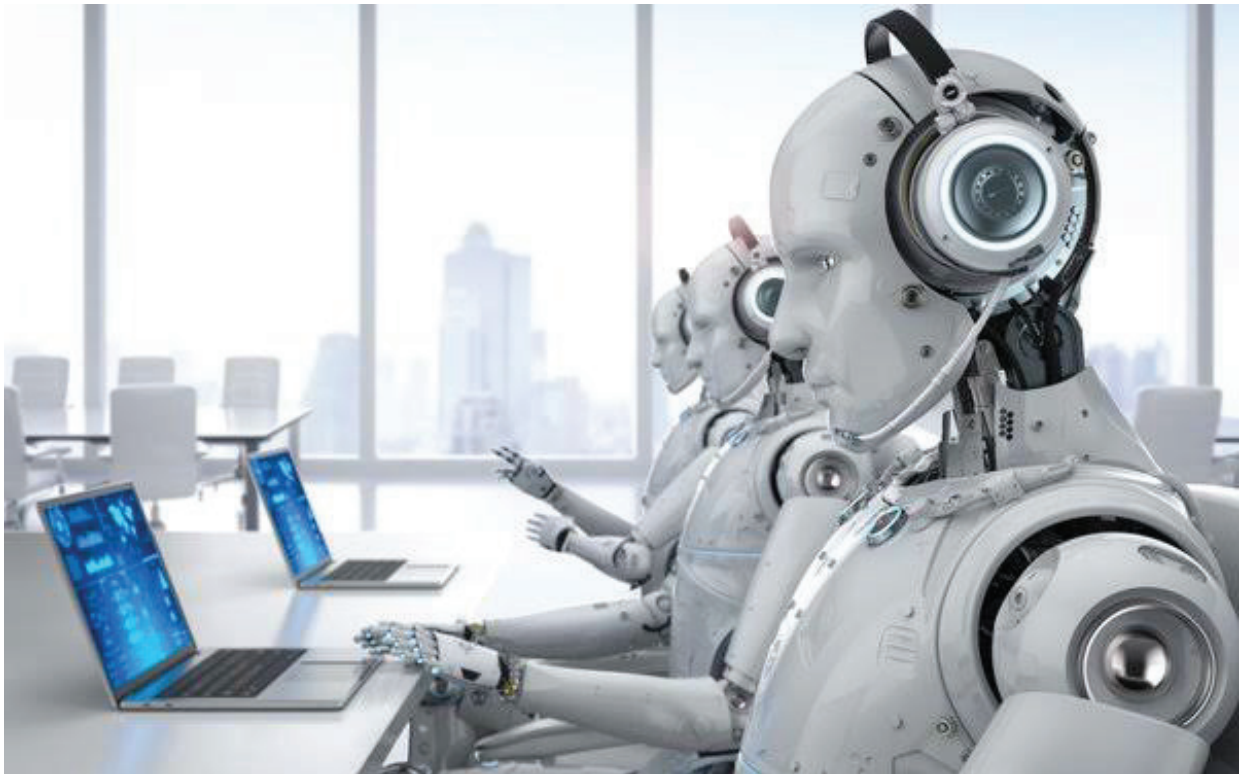
4. Smart Vision & Predictive Maintenance

AI-powered monitoring and real-time analysis to enhance safety and prevent equipment failures.
Technologies: Object & anomaly detection, Thermal imaging, Condition monitoring, IoT integration

DAL AI Service Pillars

5. AI-Powered Customer Experience & Support

Automating customer interactions with personalized, intelligent, and compliant solutions.
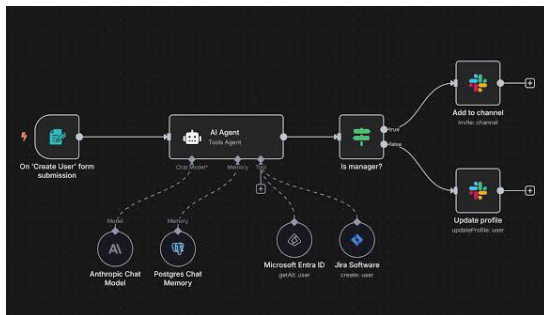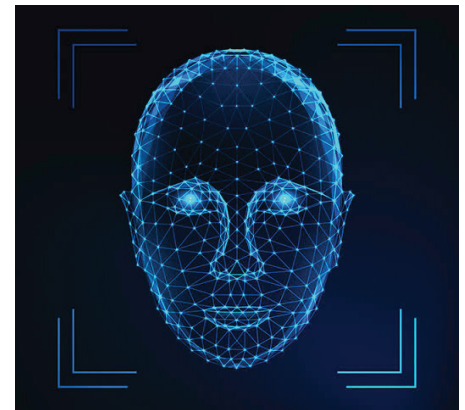**Technologies:** AI chatbots, NLP, Automated compliance review, Personalized offer engines

Practical Use Cases

1. Digital Identity Verification (eKYC)

Automates identity verification using biometrics and document scanning.
Example: A bank instantly verifies a customer's face, ID, and liveness—enabling
account opening in seconds.

## 2. Intelligent Automation (n8n Workflows)

Builds automated workflows connecting multiple systems with zero manual intervention.
Example: Finance teams receive automated daily reports generated from multiple platforms at a set time.

3. Machine Learning & Predictive Analytics

Custom ML models forecast trends and optimize business decisions.
Example: Telecom operators predict churn and automatically generate personalized retention offers.
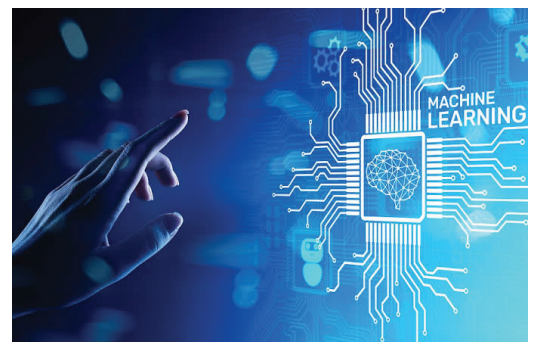
Practical Use Cases

4. Smart Surveillance & Predictive Maintenance

AI-powered vision systems detect safety breaches and predict machine failures in advance.
Example: Cameras alert when workers miss safety gear; sensors predict equipment breakdown before it happens.

5. AI Customer Onboarding & Compliance

Instant document and form validation for fast and accurate approvals.
Example: Government service portals auto-check business registration documents
and highlight missing or invalid files.

leveraging cutting-edge technologies to connect devices and systems, and provide valuable insights, automation and control to improve the operations and revenue for businesses. (IoT)

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.
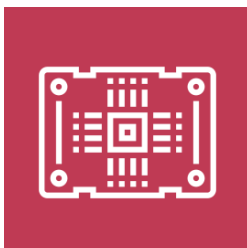
3. PCB Design

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.

DAL IOT
Our Services

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
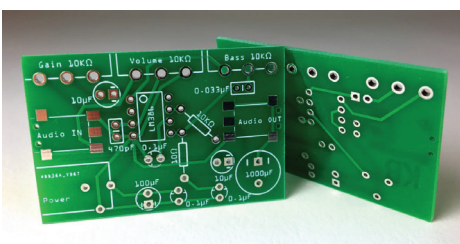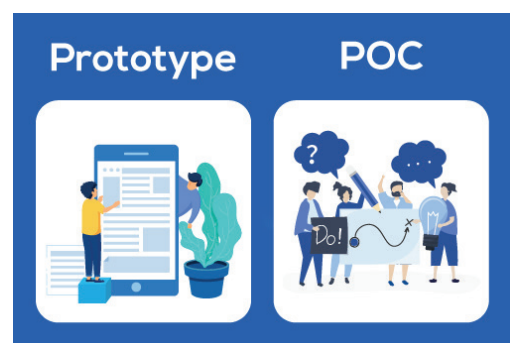

1. Research and Development (R&D):

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.
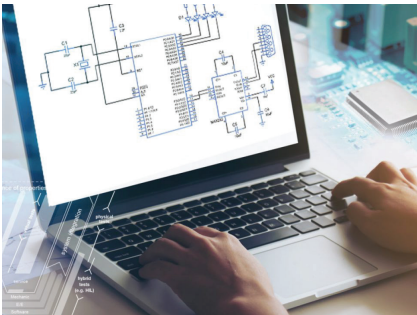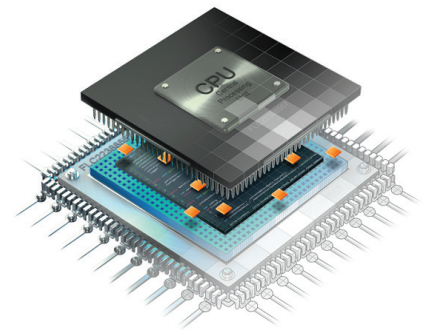

3. PCB Design & Layout:

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.

Our Services

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.
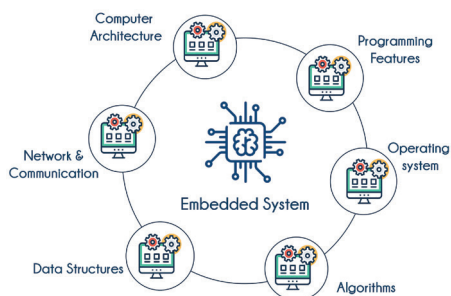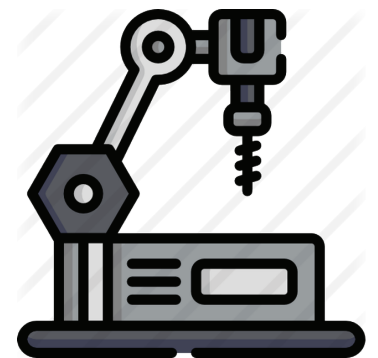
7. Embedded Systems Design:

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

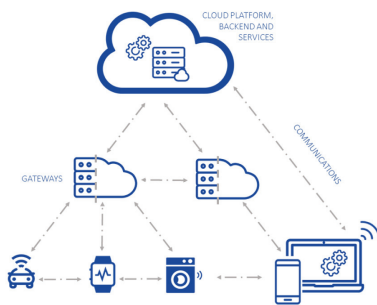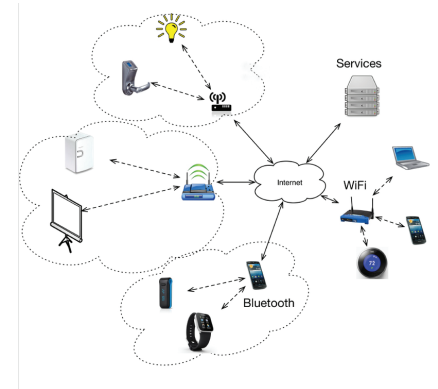# Our Services

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 IOT Use case
Emirate Shooting Equipment BaseBoard

The EMSE Target Board is designed to run POPUP targets, mono-rail 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
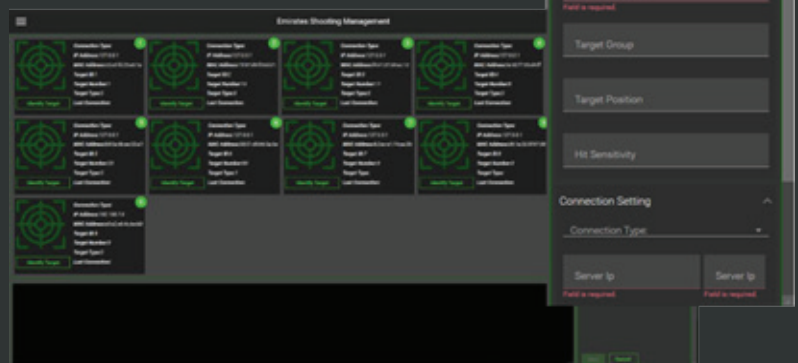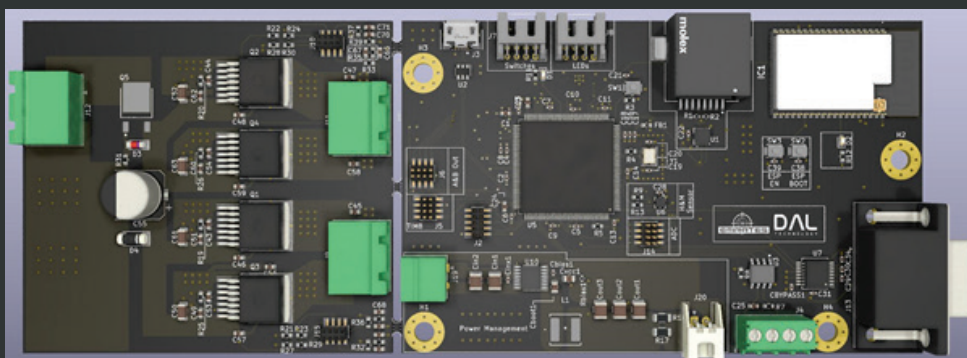
DAL IOT Use case
DAL IOT Smart Plug

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
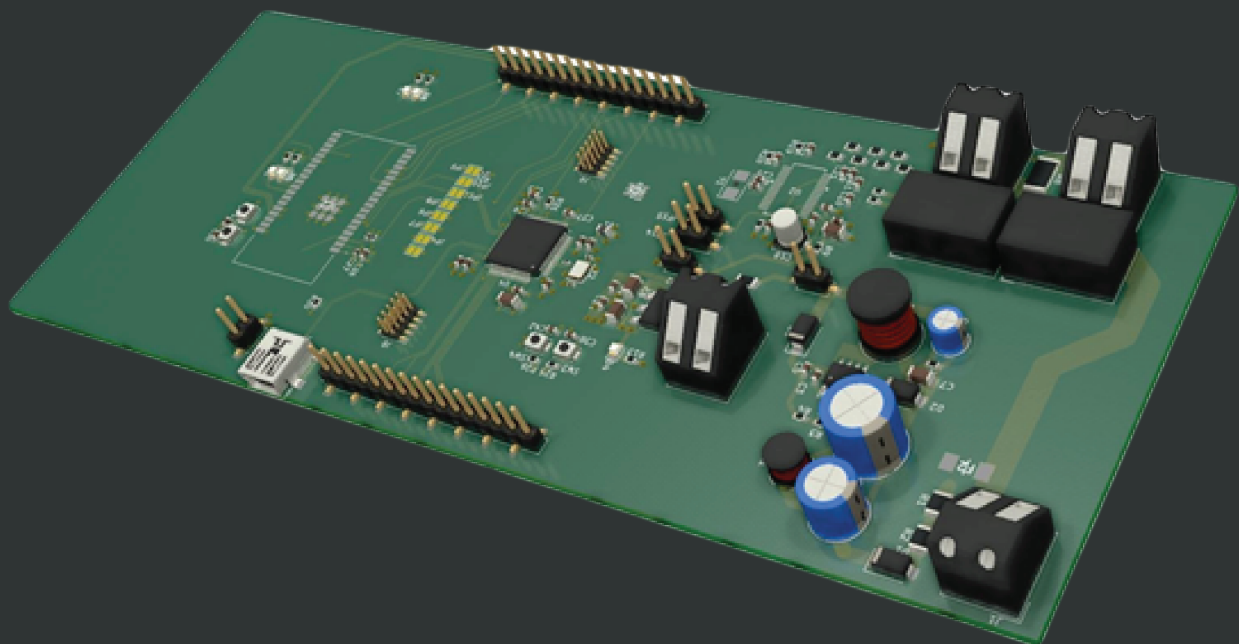
DAL IOT Use case
Radiosonde for Meteorological Agency

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

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

Temperature Sensors
Type: platinum RTD
Range: -70 – 200 °C
Response Time (1000 mbar 6m/s): < 1s

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

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

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)
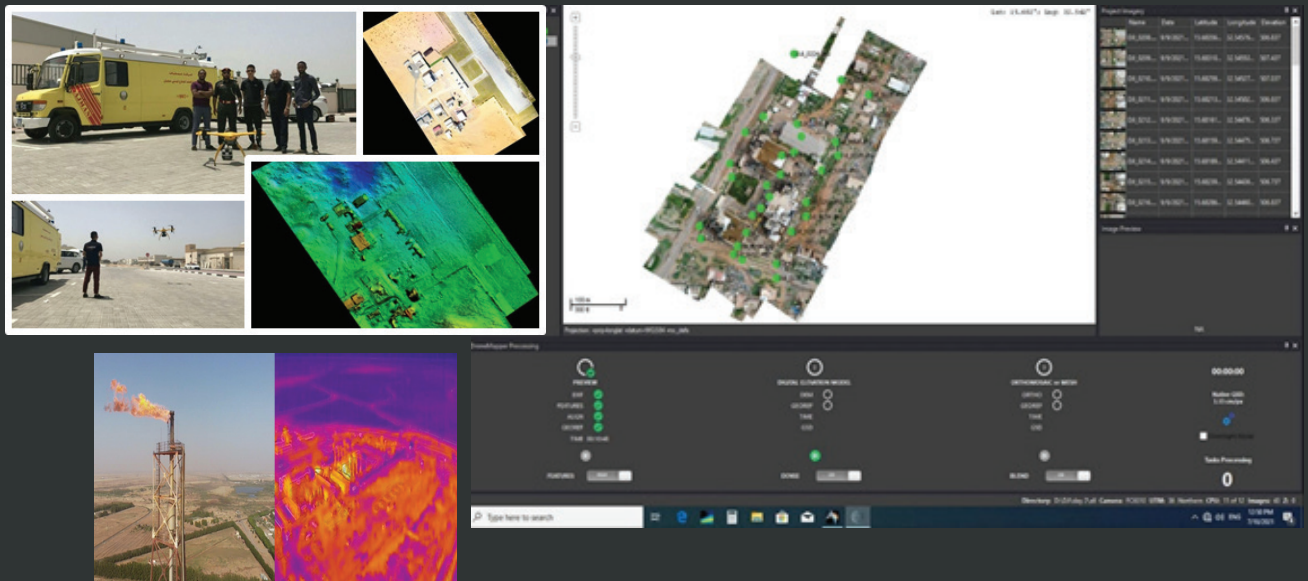
Subsidiary Companies

DAL DIGITAL
دال الرقميــــــــة

DAL Digital is a leading technology company specializing in digital transformation and advanced technology solutions. Headquartered in Sudan, the company marks a new chapter in supporting and accelerating the nation's digital and technological evolution, backed by global expertise spanning more than eight countries.

We deliver innovative, end-to-end solutions across digital transformation, core banking systems, FinTech, smart application and system development, electronic payment platforms, and resilient IT infrastructure.

DAL Digital positions itself as a strategic technology partner for banks, government entities, and large enterprises, working collaboratively to build a smarter, more connected, and digitally empowered future for Sudan.

Subsidiary Companies

DAL Businessman Services

BusinessMan Services

Corporate Setup and PRO Support

- Company registration and trade licensing
- Visa processing and government liaison services
- Business advisory and compliance support

DAL General Trading

للتجارة العامة ذ م م

General Trading LLC

Supply Chain and Hardware Procurement

- Sourcing and distribution of technology hardware
- Logistics and import-export services
- Support for group projects and client deployments

Some of Our Clients

AL SALAM BANK

البركة
alBaraka

QNB

CARMEN
PERFUMES
DUBAI

البنك السوداني المصري
Sudanese Egyptian Bank

United Capital Bank
بنك المـال المتحد

ELNILEIN BANK

EMIRATES
SHOOTING EQUIPMENT

ARB
ANIMAL RESOURCES BANK
بنك الثروة الحيوانية

بنك فيصل الإسلامي
Faisal Islamic Bank

QIB المصرف

البنك العربي
ARAB BANK

BNMB
بنك النيل الازرق المشرق
Blue Nile Mashreg Bank

padel
nation

كارفور
Carrefour

بنك النيل
AlNile Bank

Approve by

SECURITY INDUSTRY REGULATORY AGENCY
مؤسسة تنظيم الصناعة الأمنية
SIRA

مركز المتابعة والتحكم
MONITORING & CONTROL CENTRE

دائـرة الـتـنـمـيـة الاقـتـصـاديـة
DEPARTMENT OF ECONOMIC DEVELOPMENT

TDRA
هيئة تنظيم الاتصالات
والحكومة الرقمية
TELECOMMUNICATIONS AND DIGITAL
GOVERNMENT REGULATORY AUTHORITY

بفخر مساهم في إقتصاد دبي
PROUD CONTRIBUTOR
TO DUBAI'S ECONOMY
مؤسسة محمد بن راشد
لتنمية المشاريع الصغيرة والمتوسطة
DUBAI SME

صندوق خليفة
صندوق خليفة لتطوير المشاريع
Khalifa Fund for Enterprise Development

DUBAI
للاقتصاد والسياحة
Economy and Tourism

غرفة أبوظبي
ABU DHABI CHAMBER

غـرفـة دبـي
DUBAI CHAMBER

Some of our partners

Microsoft

ORACLE

aws

iSolutions

GRGBanking
Beyond Your Expectation

IPTEC

DELL

SambaPOS

imin

BARCO | ClickShare

Larnitech
development and production

UNV

Regula

SANGOMA

GURTAM

wialon

3SCORT

JIMI
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Track & Achieve

NAVTELECOM
TELEMATICS SYSTEMS