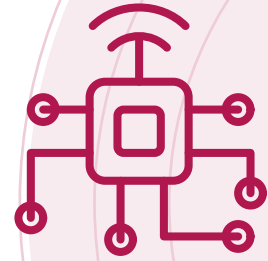




IoT

DAL TECHNOLOGY | DIVISION PROFILE 2026



IoT & Smart Systems

Connecting Devices. Creating Intelligence.

End-to-end embedded-system engineering, IoT hardware, sensors, firmware, connectivity, device management and smart-sector solutions.

Bring physical systems into the digital world.

ENGINEER

CONNECT

CONTROL

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DIVISION OVERVIEW

Specialist focus. Connected delivery.

A complete profile for project introductions, proposals and customer discussions.

DAL IoT & Smart Systems takes products from concept to connected, intelligent and production-ready devices. The division combines electronic design, PCB engineering, firmware, sensors, wireless connectivity, cloud integration, prototyping, testing and field deployment.

Complete engineering

Combine electronics, PCB design, firmware and product prototyping.

Connected devices

Integrate sensors, gateways, wireless networks and device platforms.

Lifecycle control

Manage devices from validation and deployment through ongoing operation.

ABOUT DAL TECHNOLOGY

DAL Technology combines software engineering, systems integration, cloud, cybersecurity, artificial intelligence, telematics and IoT through five specialised divisions. Its regional presence and international technology ecosystem support delivery from discovery and architecture through implementation, support and continuous improvement.

**CAPABILITIES**

What we deliver

Capabilities, target sectors and deployment choices aligned with your operating needs.

CORE CAPABILITIES

- Research and concept validation
- Embedded hardware design
- Schematic and multi-layer PCB design
- Firmware and device drivers
- Sensor integration
- BLE, Wi-Fi, LoRaWAN, RF, cellular and GPS
- AI-enabled embedded systems
- Mechanical and industrial design
- Prototyping, calibration and field testing
- Cloud, mobile app and device-platform integration

TARGET SECTORS

Industrial automation
Energy and utilities
Agriculture and environment
Weather and meteorology
Security, defence and robotics
Wearables and wellness
Smart buildings and homes
Consumer IoT

DEPLOYMENT MODELS

Device + Gateway
Edge
Cloud Connected
Private IoT Platform

Solution selection and deployment design follow the agreed project scope, integrations and service requirements.



CORE PORTFOLIO

Five core products

A clear role for each product in the customer solution.

01 DAL IoT Studio

Concept validation, architecture, electronics, PCB, firmware, prototyping, testing and production support.

Product Development

02 DAL Device Manager

Registration, monitoring, configuration, firmware updates, status management and lifecycle control.

Device Control

03 DAL Smart Energy

Energy and power monitoring, smart plugs, meters, analytics and control.

Smart Metering

04 DAL Smart Home

Integrated lighting, climate, security, access, appliances and energy control.

Connected Living

05 DAL Agro

Soil, irrigation, weather and environmental monitoring for farms and agricultural operations.

Smart Agriculture

Products and services are configured to the agreed customer scope.



EXTENDED PORTFOLIO

Solutions & specialist services

Capabilities that extend the core product portfolio.

DAL GasSense

Remote monitoring of gas cylinders and tanks through LoRaWAN and long-range connectivity.

DAL Industrial Monitor

Temperature, pressure, vibration, humidity and condition monitoring for equipment and industrial assets.

DAL Weather

Radiosonde, weather-station and atmospheric data acquisition systems.

DAL Smart Garden

Irrigation, soil, weather, lighting and plant-condition monitoring.

DAL LoRaWAN

Gateways and long-range low-power connectivity for sites, cities, farms and remote infrastructure.

Custom Embedded Products

Purpose-built control boards, wearables, sensors, robotics and edge-AI devices.



USE CASE EXAMPLES

Practical applications

Examples of how the portfolio supports customer operations.

01

Emirates Shooting Equipment Control Board

An embedded board connects target equipment through Wi-Fi, Bluetooth and LoRaWAN, integrating impact, vibration and environmental sensors.

CONNECTED EQUIPMENT CONTROL

02

DAL Smart Plug

A Bluetooth-enabled smart power meter for remote monitoring and control of voltage, current, power factor and energy consumption.

ENERGY VISIBILITY

03

Radiosonde for Meteorological Applications

An atmospheric measurement device transmitting altitude, pressure, temperature, humidity and GPS-derived wind data in real time.

ATMOSPHERIC MEASUREMENTS

04

Drones and Aerial Systems

Custom drone and embedded-system engineering for mapping, inspection, agriculture, security and oil-and-gas applications.

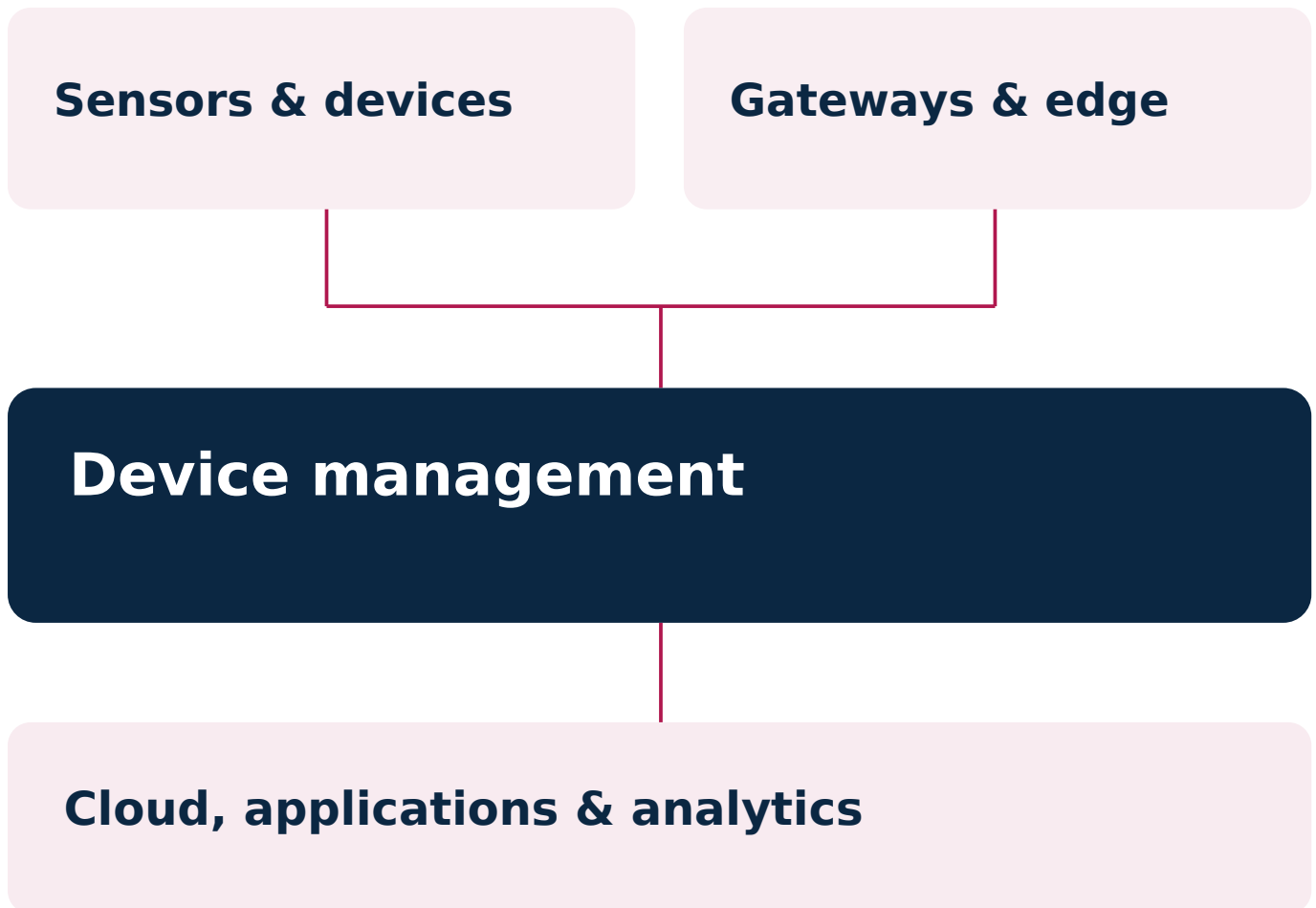
REMOTE INSPECTION AND MAPPING



SOLUTION MODEL

How the components connect

A high-level view of the connected solution and its operational controls.



CROSS-CUTTING CONTROLS



Final architecture, interfaces and responsibilities are defined for each engagement.



DELIVERY APPROACH

From discovery to ongoing operation

Clear stages, defined ownership and a controlled path to delivery.

1 Discover

Requirements, stakeholder priorities, current-state assessment and desired outcomes.

2 Design

Architecture, scope, security model, integrations and implementation planning.

3 Build

Configuration, development, integration, device preparation or infrastructure deployment.

4 Validate

Testing, security review, user acceptance, performance checks and documentation.

5 Launch

Production rollout, migration, training, handover and operational readiness.

6 Operate

Support, monitoring, optimisation, updates and roadmap development.

DELIVERY ASSURANCE

Documented scope and milestones • Acceptance and handover • Training and knowledge transfer • Support responsibilities and service levels agreed in writing.

**WORKING WITH DAL**

Engagement & technology ecosystem

A commercial and operating model shaped around the project.

COMMERCIAL STRUCTURE

Engineering and non-recurring development fees + prototype cost + unit manufacturing cost + platform subscription + support and maintenance.

ENGAGEMENT OPTIONS

- Product licence & implementation
- Managed service
- Project delivery & handover
- Subscription / SaaS
- Engineering & product development
- Support & maintenance agreement

RELEVANT TECHNOLOGIES WITHIN DAL'S WIDER ECOSYSTEM**Industrial & edge technology**

Advantech and embedded-system engineering capabilities

Smart systems

Larnitech / UNV (Uniview) / iMin within DAL's wider ecosystem

Connectivity foundations

BLE, Wi-Fi, LoRaWAN, RF, cellular and GPS

Coverage, response times, platform selection and responsibilities are defined in the agreed scope and SLA.



CONTACT DAL

Let's start with your next project.

Share your objectives, locations, systems and expected scope with our team.

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