

**CONSILIUM**

Modular Command & Control Platform

One operational picture, from the systems you already have.

Consilium connects sensors, platforms, operational systems and data sources within a single modular environment, giving operators a **coherent operational picture, alerting and workflow across connected systems**. It bridges legacy platforms, modern applications and operational assets without forcing wholesale replacement.

Modular

Open

Orchestration

On-Prem · Cloud · Hybrid

UK-Sovereign

Deploy as a standalone capability, or as the central command layer across the wider **Espanaro** product ecosystem.

www.ESPANARO.com

WHAT IS CONSILIUM

A modular command layer for complex, data-rich operations

Consilium connects sensors, platforms, operational systems and data sources within a single modular environment. It gives operators a coherent operational picture, supports alerting and workflow, and creates a practical integration layer between legacy systems, modern applications and connected operational assets. Designed for defence, national security, nuclear and critical national infrastructure.

THREE PRINCIPLES

• Modular

Deploy only the capability required and expand over time, without disruptive replacement programmes.

• Open

Integrate existing sensors, systems, data and workflows through open interfaces and adapters.

• Sovereign

UK-developed software designed for controlled, regulated and operationally constrained environments.

THE CHALLENGE & THE OUTCOME

THE CHALLENGE

Operational teams often work across fragmented applications, disconnected sensors and legacy platforms. Information is duplicated, alerts are isolated and decision-makers lack a reliable common picture.

Replacing every existing system is **rarely affordable or operationally realistic**, so capability has to be introduced through integration and reuse.

OPERATIONAL VALUE

Consilium delivers:

- One operational picture
- Faster integration
- Open architecture
- Secure deployment
- Operator-led design

THE APPROACH

Consilium provides a **modular integration layer** that connects new capability to existing infrastructure, supporting **incremental modernisation** rather than disruptive replacement, as a standalone platform or the hub of a broader product stack.

WHAT CONSILIUM DOES

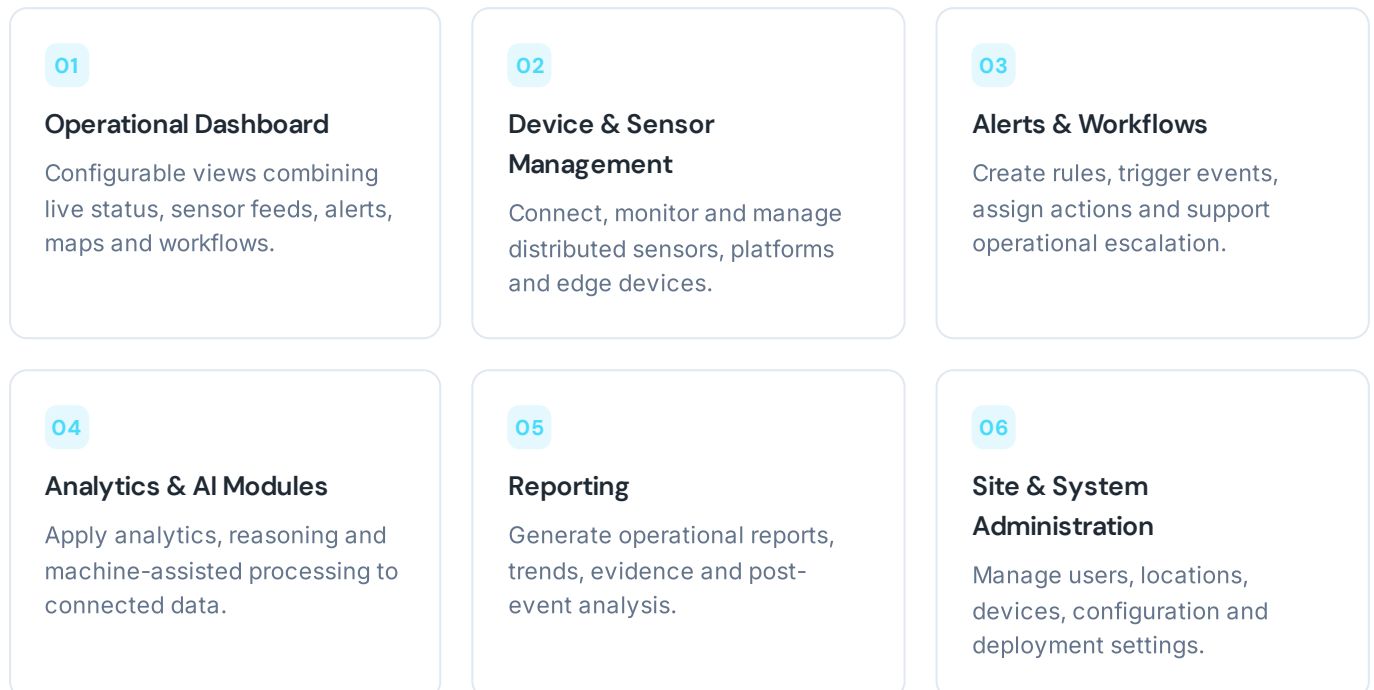
A modular integration layer, not a wholesale replacement

Consilium sits within your wider operational ecosystem, unifying data across systems and presenting it through configurable views, rules and workflows.

- + Unifies data from sensors, systems, applications and external sources.
- + Presents information through configurable dashboards and operational views.
- + Supports rules, alerts, workflows and escalation across connected systems.
- + Provides a modular integration layer without forcing wholesale replacement.
- + Enables reporting, analytics and AI-enabled processing through connected modules.
- + Supports integration with external mission systems, specialist applications and tooling.
- + Provides secure, governed access to information based on operational need.
- + Can operate on-premises, in cloud environments or as a hybrid deployment.

CORE CAPABILITY MODULES

Six modules that combine into one coherent operational environment



INTEGRATION BY DESIGN

Connect new capability to the infrastructure you already have

Consilium is designed to sit within a wider operational ecosystem. It connects new capability to existing infrastructure, exposes data to authorised users and applications, and supports incremental modernisation rather than disruptive replacement programmes.

INTEGRATION AREA	SUPPORTED APPROACH
Sensor & device integration	SAPIENT, ONVIF, RTSP, MQTT, Modbus and vendor-specific adapters.
Data & application interfaces	APIs and structured data formats including JSON and XML.
Data distribution	DDS and other event-driven or message-based integration patterns.
Secure information sharing	Policy-driven access, Zero Trust principles and support for data-centric security.

DEPLOYMENT OPTIONS

Deploy where the mission needs it

ON-PREMISES In your network For secure sites, controlled networks and locally hosted operations.	CLOUD Scalable hosting For scalable deployments where approved cloud hosting is appropriate.	HYBRID Best of both For distributed operations spanning edge, site and central environments.
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BUILT FOR CONTROLLED ENVIRONMENTS

Assurance considerations

• Secure by design Role and policy-driven access, Zero Trust principles and secure information sharing.	• Data residency Deployment aligns to your network boundaries, security model and operational governance.	• UK-sovereign Engineered in the UK with direct access to the product and delivery team.
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REPRESENTATIVE USE CASES

Where Consilium makes the difference

Secure Site Operations

Combine perimeter sensing, cameras, access data, alarms and response workflows.

Command & Control

Create a common operational picture across systems, units and distributed assets.

Nuclear & CNI

Integrate monitoring technologies within regulated, safety-conscious environments.

Multi-System Operations

Connect specialist platforms, applications and data services within one coherent environment.

Surveillance & Intelligence

Fuse video, sensor and intelligence data into actionable operational views.

Technology Demonstration

Rapidly integrate multiple suppliers and technologies for trials, pilots and evaluation.

WHY CONSILIUM

Integration-led capability, built in the UK

- ✓ Reduces dependence on disconnected, single-purpose interfaces.
- ✓ Allows capability to be introduced incrementally and scaled over time.
- ✓ Provides a route from trial activity into supportable operational capability.
- ✓ Works as a standalone platform or as the hub of a broader product stack.
- ✓ Protects existing technology investment through integration and reuse.
- ✓ Supports operator workflows rather than imposing a fixed enterprise model.
- ✓ Designed for secure, regulated and operationally constrained environments.
- ✓ UK-sovereign engineering with direct access to the product and delivery team.



Build on what you have, rather than replacing everything.

Consilium is built around operator workflows and operational outcomes, integrating existing systems into one coherent, governed picture.

TECHNICAL SUMMARY

At a glance

Product type	Modular command-and-control, data integration and operational management platform.
Architecture	Open, modular and integration-led.
Deployment	On-premises, cloud or hybrid.
Interfaces	APIs, structured data, message-based integration and configurable adapters.
Security approach	Role and policy-driven access, Zero Trust principles and secure information sharing.
Users	Operators, analysts, site teams, command staff, system administrators and technical integrators.
Lifecycle	Suitable for rapid trials, pilot deployments and production-scale implementation.

HOW TO ENGAGE

A straightforward path from first conversation to operations

STEP 01

Discovery

Understand the operational problem, environment and existing systems and data sources.

STEP 02

Integration Workshop

Shape modules, integration and deployment options around your mission and constraints.

STEP 03

Pilot

Evaluate Consilium in a controlled deployment ahead of wider operational rollout.

Build a coherent operational picture without replacing everything you already have.

Speak to Espanaro about a Consilium discovery, integration workshop or pilot deployment.

[Book a discovery session](#)

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