

**WAYFORGE**

Uncrewed-Systems Mission Planning & Tasking

Plan, task and deploy uncrewed systems, as one workflow.

WayForge provides a common software layer for planning, tasking and deploying uncrewed systems. It supports **repeatable mission design, route control and platform coordination across land, air and maritime environments**, reducing dependence on isolated vendor interfaces. It can operate independently or integrate with Consilium and wider command systems.

Plan

Deploy

Integrate

Command Post · Vehicle · Distributed

UK-Sovereign

Deploy as a standalone mission-planning capability, or as the tasking layer across the wider **Espanaro** product ecosystem.

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WHAT IS WAYFORCE

Mission planning, tasking and deployment for uncrewed systems

WayForge provides a common software layer for planning, tasking and deploying uncrewed systems. It supports repeatable mission design, route control and platform coordination across land, air and maritime environments, reducing dependence on isolated vendor interfaces. It can operate independently or integrate with Consilium and wider command systems.

THREE PRINCIPLES

• Plan

Create routes, tasks, waypoints, operating zones and mission constraints.

• Deploy

Task and control integrated platforms from secure operational environments.

• Integrate

Connect multiple platform types with command systems, sensors and operational data.

THE CHALLENGE & THE OUTCOME

THE CHALLENGE

Defence, national security and critical-infrastructure operators increasingly rely on uncrewed systems, but planning and deploying them often requires separate vendor tools, specialist interfaces and manual coordination.

This creates **fragmented workflows, limits interoperability** and makes it harder to manage missions consistently across different platforms, environments and operating locations.

OPERATIONAL VALUE

WayForge delivers:

- Common mission workflow
- Platform interoperability
- Repeatable deployment
- Reduced operator burden
- Faster mission preparation

THE APPROACH

WayForge provides a **hardware-agnostic mission planning, tasking and deployment layer** for uncrewed systems, letting operators define routes, tasks, operating constraints and mission objectives from a command post, vehicle or secure control environment, and connect platform activity with the **broader operational picture**.

WHAT WAYFORCE DOES

Plan the mission, task the platforms, manage the deployment

WayForce turns operator intent into platform-specific tasking across land, air and maritime systems, from a command post, vehicle or secure control environment.

- + Plans routes, waypoints, patrol patterns and mission tasks.
- + Defines speed, direction, timing and platform operating constraints.
- + Supports launch, deployment, task update, return and recovery workflows.
- + Provides geofencing, exclusion zones and route-validation controls where integration permits.
- + Supports land, air and maritime uncrewed platforms through adaptable integrations.
- + Enables operation from command posts, vehicles or secure control environments.
- + Connects mission activity with Consilium or third-party command systems.
- + Provides a route to multi-platform coordination, rehearsal and operational assurance.

CORE CAPABILITIES

Four building blocks for uncrewed-system missions

01

Mission Planning

Define routes, waypoints, tasks, objectives, operating zones and mission constraints.

02

Platform Tasking

Translate operator intent into platform-specific commands through controlled integrations.

03

Mission Execution

Monitor progress, update tasks and manage return, recovery or contingency actions.

04

Multi-Platform Integration

Provide a common workflow across different vehicles, payloads and vendor ecosystems.

PLAN

Routes, tasks and zones



TASK

Platform-specific commands



DEPLOY

Launch and control



RECOVER

Return and contingency

INTEGRATION BY DESIGN

A hardware-agnostic layer across your platforms

WayForge provides a hardware-agnostic mission planning, tasking and deployment layer for uncrewed systems. It lets operators define routes, tasks, operating constraints and objectives from a command post, vehicle or secure control environment, and can operate independently or integrate with Consilium and wider command systems.

INTEGRATION AREA	SUPPORTED APPROACH
Uncrewed platforms	Integrate with UGVs, UAVs, USVs and other compatible land, air and maritime systems.
Sensors & payloads	Incorporate platform telemetry, cameras, sensors and mission payload status into the workflow.
Command-and-control systems	Connect mission plans, tasking and platform status with Consilium or third-party command environments.
Communications & interfaces	Use platform APIs, messaging services, adapters and approved control interfaces.
Espanaro product ecosystem	Integrate with Consilium for the wider operational picture and other Espanaro products where mission needs require.

DEPLOYMENT OPTIONS

Deploy where the mission needs it

COMMAND POST Centralised control For centralised mission planning, supervision and coordination within secure facilities.	VEHICLE-MOUNTED On the move For planning and deployment from mobile command, patrol or response vehicles.	DISTRIBUTED Across teams For missions coordinated across local operators, remote teams and wider command systems.
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BUILT FOR CONTROLLED ENVIRONMENTS

Assurance considerations

● Controlled integration Supports controlled integration of safety and operating constraints across platforms.	● Route validation Geofencing, exclusion zones and route-validation controls where integration permits.	● UK-sovereign Engineered in the UK with direct access to the product and delivery team.
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REPRESENTATIVE USE CASES

Where WayForge makes the difference

Secure-Site Patrol

Plan repeatable patrol routes for UGVs around nuclear, defence, airfield and critical-infrastructure sites.

Perimeter & Interdiction

Task platforms to investigate alarms, inspect areas and support controlled security responses.

Reconnaissance & Surveillance

Plan routes and payload tasks for persistent or targeted collection missions.

Hazardous-Area Operations

Deploy platforms into locations where risk, contamination or access constraints limit personnel.

Mission Rehearsal & Trials

Design, repeat and evaluate missions within controlled test and experimentation environments.

Multi-Domain Coordination

Coordinate compatible land, air and maritime assets through a common planning approach.

WHY WAYFORGE

A common uncrewed-systems workflow, built in the UK

- ✓ Creates a consistent workflow across different platform types.
- ✓ Reduces dependence on isolated manufacturer control applications.
- ✓ Supports repeatable mission planning, execution and assurance.
- ✓ Connects uncrewed activity with the wider operational picture.
- ✓ Works with existing platforms, sensors and command environments.
- ✓ Supports controlled integration of safety and operating constraints.
- ✓ Can operate independently or as part of the wider Espanaro product stack.
- ✓ UK-sovereign engineering with direct access to the product and delivery team.



One workflow, across every platform and domain.

WayForge plans, tasks and deploys uncrewed systems across land, air and maritime environments, connecting platform activity with the wider operational picture.

TECHNICAL SUMMARY

At a glance

Product type	UXV mission planning, tasking and deployment software.
Primary function	Plan, task, supervise and coordinate uncrewed-system missions.
Architecture	Modular mission-planning, integration, tasking and execution services.
Deployment	Command post, vehicle-mounted, on-premises, private cloud or distributed environments.
Interfaces	Platform APIs, telemetry, messaging, adapters, sensor feeds and command-system integrations.
Users	Operators, mission planners, security teams, system integrators and operational commanders.
Lifecycle	Suitable for platform integration, experimentation, pilot deployments and operational use.

HOW TO ENGAGE

A straightforward path from first conversation to operations

STEP 01

Integration Assessment

Understand the platforms, environments and command systems the mission relies on.

STEP 02

Mission-Planning Workshop

Shape routes, tasking and operating constraints around your platforms and mission.

STEP 03

Pilot

Evaluate WayForge in a controlled deployment ahead of wider operational use.

Plan, task and deploy uncrewed systems **through a consistent operational workflow.**

Speak to Espanaro about a WayForge mission-planning workshop, platform integration assessment or pilot deployment.

[Book a discovery session](#)
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