



Engineering a Secure Future

WHAT WE DO

Systems Engineering

MBSE
Requirements Mgmt
Lifecycle Mgmt

Cloud Engineering

Infrastructure Services
Migration Management
Cloud Optimisation
Cloud Documentation

Domain Specialists

Security Experts
C5ISR
Research and Development

Software Engineering

Development
Integration
AI/ML

Cyber Security

Information Assurance
Governance, Risk, and Compliance
Risk Management

Project Management

Agile and traditional methodologies.
Product Owners and Scrum Masters

CTO as a Service

Technical leadership
System architecture and strategy
Solutions for scaling and growth



WHO ARE WE

Espanaro is an engineering consultancy and service delivery partner in the UK, who specialise in systems engineering, software engineering, and systems integration within the Defence sector.

OUR TEAM

The team has a wealth of military and commercial knowledge and expertise, with a large proportion being ex-forces. In addition to this practical experience, the team incorporates several academics with backgrounds in mathematics, theoretical physics, and computer science

OUR VISION

To become a prime delivery partner, supplying cutting-edge security technology solutions to Government and Industry

OUR MISSION

Our mission is to be a leading Technology Delivery Partner, providing secure, simple, and innovative solutions and capabilities, all delivered through a customer-centric approach.



Systems Thinking methodologies underpin all our work here at Espanaro. Whether developing a system architecture, building a project plan, or understanding a client's issues, we ensure that we look at the problem as a whole as well as its constituent parts.



SYSTEMS OF SYSTEM APPROACH

Through the application of Model-Based Systems Engineering (MODAF, SOSAF, UML, SysML, NAF), we develop architectures applicable throughout the life-cycle, including CONOPS / CONEMP / CONUSE, logical architectures, and physical architectures.



DETAILED SYSTEM DESIGN

Our systems engineers and solutions architects help you articulate a need to solve a problem and develop the solution. This includes bespoke system design, hardware and software down-select, and system integration.



LIFE-CYCLE MANAGEMENT

We develop life-cycle management processes that are compliant with ISO 15288. We follow globally recognised standards for system life-cycle processes, focusing on quality, reliability, and sustainability.



REQUIREMENTS MANAGEMENT

Whether it is the development of a specific system's requirements or the roll-out of a complete end-to-end requirements management process, our engineers will provide you with the confidence and rigour you require to develop your system's design or manage your project's requirements through life.



VERIFICATION & VALIDATION MANAGEMENT

With both theoretical and practical expertise, we are able to develop solutions to prove a system's capability against both requirements and, ultimately, the customer's needs.



DEVELOPMENT OF DOCUMENTATION

Whether you require management plans to control the processes on your programme or detailed design documentation to manage a system's design, our engineers have the experience and knowledge to develop the critical documentation you need with quality, efficiency, and customer focus.



Espanaro offers unparalleled expertise in Software Design and Development across all development environments. Our team excels in creating sophisticated solutions for hardware, embedded Linux, web, desktop, and server platforms. We pride ourselves on our versatile approach, catering to projects of all scales and complexities, using methodologies like Agile, Waterfall, and V-Model to ensure successful delivery.



All-Encompassing Development Environments

From hardware and embedded Linux to web, desktop-based solutions, and everything in between, our skills span the full spectrum of software development and include experience with languages including C, C++, C#, Python, JavaScript, Rust, and Go.



Agile, Waterfall, V-Model Methodologies

We employ a range of development methodologies to suit your project's needs, ensuring flexibility, efficiency, and precision in our delivery.



Secure by Design

We implement leading-edge, adaptable security and data management systems, crafted to withstand future challenges and enhance data governance and safety.



ISO 12207 Compliance

Our processes align with the international standard for software life cycle processes, ensuring quality and consistency.



What we deliver

Client Support

Provide Secure Software Engineering guidance and support on a project.

Bespoke Software Development

Develop tailor-made software applications, designed to align with your unique requirements and strategic goals.

Infrastructure management

Design and implement innovative software architectures that enhance infrastructure management and dramatically reduce operational expenses.

Seamless Integration

Smoothly Integrate with existing hardware and software solutions

ML Driven Data Analytics

Harness advanced data analytics and machine learning capabilities to reveal critical insights, driving safer and more informed decision-making



Cloud engineering isn't just about technology, it's about creating seamless, integrated solutions. We design, deploy, and manage cloud environments with a holistic approach, ensuring that every element works in harmony to deliver optimal performance, security, and scalability.



INFRASTRUCTURE SERVICES

We specialise in the seamless provisioning and management of virtual servers, storage, and networking within cloud environments. From setting up virtual machines to configuring storage solutions and managing complex networking setups, we handle all aspects of your cloud infrastructure with precision.



MIGRATION SERVICES

Our Engineers will guide you through the entire process of moving your existing applications and data to the cloud, ensuring a smooth and efficient transition. Our team works closely with you to assess your current environment, develop a tailored migration strategy, and execute the migration with minimal disruption to your operations.



CLOUD OPTIMISATION

By optimising your cloud environment, we help you achieve better performance and reliability while ensuring you get the most value from your cloud investment. Our goal is to ensure your cloud infrastructure is not only effective but also sustainable, allowing your business to thrive without overspending.



MANAGED SERVICES

Whether it is the development of a specific system's requirements or the roll-out of a complete end-to-end requirements management process, our engineers will provide you with the confidence and rigour you require to develop your system's design or manage your project's requirements through life.



CONSULTING & STRATEGY

We provide expert advice on cloud strategy, architecture, and best practices to help you make informed decisions about your cloud journey. Our consulting services are designed to align your cloud initiatives with your business goals, ensuring that you choose the right solutions and approaches from the outset.



DEVELOPMENT OF DOCUMENTATION

Whether you need comprehensive management plans to streamline your cloud processes or detailed architecture documentation to ensure smooth operations, our cloud engineers have the expertise to deliver.



Espanaro provides expertise in Cyber Security across all digital environments. Our team excels in safeguarding systems for cloud, on-premises, mobile, and enterprise platforms. We take pride in our comprehensive approach, addressing security needs for businesses of all sizes and complexities, using industry-leading frameworks and best practices to ensure robust protection and compliance.



Information Assurance

We help you establish robust frameworks and policies that safeguard your information assets against threats and vulnerabilities. Through rigorous risk assessments, security audits, and compliance checks, we ensure that your systems are resilient and that data is protected at every stage.



Governance and Compliance

We ensure your cyber security practices are aligned with industry standards and regulatory requirements.



Risk Management

We help you identify, assess, and mitigate cyber risks before they impact your business. Our proactive approach ensures that potential threats are managed effectively, safeguarding your operations.



Disaster Recovery Planning

We prepare your business for the unexpected by developing robust disaster recovery plans that ensure quick recovery and minimal downtime after a cyber incident.



What we deliver

Client Support

We provide dedicated client support, ensuring you have expert assistance whenever you need it.

Cyber Security Management

We deliver comprehensive cyber security management, overseeing all aspects of your security posture to protect your business

Information Security

We safeguard your critical data through advanced information security measures, ensuring the confidentiality, integrity, and availability of your information across all systems and platforms.

Security Awareness Training

We provide tailored training programs to educate your staff on best practices and the latest threats, empowering them to be your first line of defence against cyber attacks.

Compliance Audits

We conduct thorough compliance audits to ensure your business meets all necessary regulatory requirements.



CTOaaS Chief Technical Officer as a Service

At Espanaro, our CTO as a Service (CTOaaS) provides flexible, on-demand access to top-level technical leadership without needing a full-time hire. CTOaaS offers expert guidance in system architecture, technology strategy, and product development, tailored to your business's needs. We deliver bespoke solutions for every organisation. Whether you need a technology overhaul, help with product development, or support in scaling systems, CTOaaS ensures our solutions align with your business goals.

What We Provide

Strategic Oversight for Scalable Growth



We guide businesses at all stages—start-up, growth, or digital transformation—through complex technology landscapes. CTOaaS helps define and execute your technology roadmap while ensuring scalable systems.

Our services include:

- Technology Roadmap Development: Align technology with business goals and prepare for future growth.
- Infrastructure Management: Implement scalable solutions to meet evolving technical needs.
- Product Development: Oversee product development from concept to market, tailored to your needs.

Systems Integration and Infrastructure



Our CTOaaS service goes beyond strategic planning. We offer hands-on support in systems integration and infrastructure management, ensuring smooth interoperability between your software, hardware, and networks.

This includes:

- Seamless Integration: We ensure new technology integrates smoothly into your existing systems, minimising disruption and enhancing performance.
- Infrastructure Oversight: Our technical leadership ensures that your infrastructure is optimised for performance, cost-efficiency, and scalability.

Cybersecurity and Compliance



Security is a priority for all businesses, and CTOaaS ensures your technology infrastructure is secure, compliant with industry standards, and future-proof.

We deliver:

- Security Audits & Risk Management: We assess and fortify your systems against vulnerabilities, ensuring compliance with relevant regulations and standards.
- Data Protection: Ensure that your data remains secure, using advanced protection techniques that align with industry best practices.

Flexible Engagement Model



With CTOaaS, access Espanaro's expertise for specific projects, ongoing strategic support, or during critical growth phases. This flexible service offers cost-effective oversight, letting you focus on business growth while we manage the technical complexities.

We assist in:

- Short-Term Projects: Expert guidance for time-bound initiatives.
- Ongoing Support: Long-term advisory for continuous tech evolution.
- Critical Growth Phases: Support during rapid growth, ensuring scalability and sustainability.

Partner With Us

Empowering Your Vision With Our Expertise

Our service provides you with a complete, ready-to-deploy team of systems and software engineering professionals. This team is tailored to meet the specific needs of your project, ensuring a perfect blend of skills and experience.

WHY **ESpanaro**?

At Espanaro, we are more than just a service provider; we are your strategic partner in systems and software development. Our Team-On-Demand service is a testament to our commitment to excellence and innovation in every project.

HOW **WE** DELIVER FOR YOU

Flexibility is key to how we offer our services to support our partners and therefore we will work with you to accurately define the specifics of working arrangements to best meet your needs.

Work Package Solutions

At Espanaro, we specialise in meticulously crafting work packages tailored to your unique challenges, ensuring a clear path to the solutions you seek.

Variable Scope Delivery

We understand the challenges of developing discrete packages of work and that sometimes you require additional skilled resources to deliver whatever the project may entail. Therefore, we provide an alternative to "work package solutions" that simply works on a time-based engagement model with flexible scope of delivery.

KEY **BENEFITS**



Risk Mitigation

We absorb the delivery risks, allowing you to focus on client relationships and business growth.



Turnkey Team Solutions

We eliminate the complexity of team assembly. We provide fully formed teams expertly tailored to meet specific project demands.



Knowledge Pool Access

Take on specific roles with us and benefit from our organisation's collective expertise and knowledge base.



Reduced Team Conflict

A cohesive, pre-assembled team from Espanaro minimises the potential for interpersonal conflicts often encountered with ad-hoc contractor groups. Our teams are curated to ensure seamless collaboration and a unified approach to your projects.





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