



One step ahead

As a technology provider, development partner, corporate citizen and employer we strive to stay one step ahead.

Engineering a safer world

L-3 TRL Technology is an agile UK-based company which designs, develops and delivers advanced electronic systems for the protection of people, infrastructure and assets.

We operate in the fields of electronic warfare and cyber security, creating scalable solutions by investing in innovation and delivering excellence. Working in partnership with civil and defence organisations, we defend against evolving and emerging threats worldwide.

As part of the leading US defence supplier L-3, we are resourced to anticipate and support our customers' evolving needs, staying one step ahead of the threat in a changing environment. Our flexibility comes largely from the fact that we have retained the ethos of a smaller company, where relationship building is paramount. The long-term customer, industry and in-country partnerships we develop pay huge dividends in terms of trust, responsiveness and our understanding of key issues.

These strong partnerships are a testament to the quality of our people applying their in-depth market knowledge and technical experience in order to understand our customers' requirements. Our highly skilled team enjoy the reputation we have for offering best of breed solutions in the markets we serve. And through having built up an extensive pool of skills and talent, we're able to provide a comprehensive core of capabilities for our defence, government, civil and commercial customers.

We appreciate the importance of tailoring individual solutions that are not only interoperable but also scalable and flexible to meet the specific requirements of each customer, in order to provide support throughout the life of the requirement and onwards.

Our open culture is reflected in our awareness of corporate responsibility in all its aspects, from financial compliance and business ethics, to environmental affairs and product integrity.



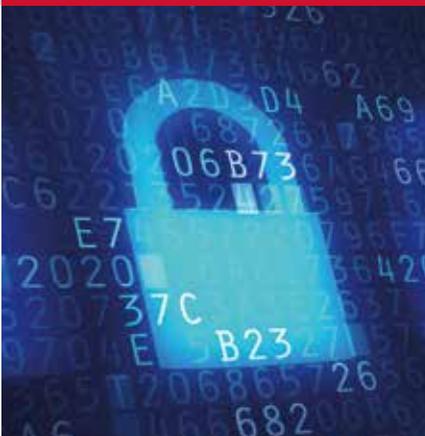


OUR MISSION

Our Mission is to be the partner of choice for global Defence, Security and Civil organisations to create advanced electronic systems for a more secure society. We help to combat evolving and emerging threats through the design and delivery of affordable, innovative technologies.



OUR MARKETS



Fail-safe protection from emerging and evolving threats

The world remains unstable, whether through natural disasters, state-on-state conflict, terrorism, transnational crime or unconventional warfare. Conflict is evolving and becoming ever more complex with the range of threats continuing to expand. That complexity, allied to the dynamic nature of the information environment, demands an adaptable and integrated approach.

Whilst some nations have the requirement to protect and defend, others need to listen and prepare; there is an overarching demand to adapt and respond accordingly.

Land Forces

The human, psychological, political and cultural dimensions of conflict and the uniqueness of the local environment make military conditions on land inherently complex. This uncertainty makes the command and organisation of land forces critically different from those in other environments.

The land force must have the ability to intervene, with the other services, to fight and win the nation's wars. It must now seek to gain advantage over an opponent in the information dimension, as well as the traditional dimensions of fire and movement combined with air power. The land force must have the ability to develop an understanding in order to exert influence in the extended battlespace.

The land force's contribution to defence engagement is instrumental in providing textual understanding, capacity building, reassurance and influence in support of stability at home and abroad. The capability to conduct demanding, decisive combat operations and contribute to defence engagement requires both an adaptable and integrated approach.

Littoral and Maritime

The presence of military and security forces on the high seas or the littoral provides a powerful message; that a nation or alliance is committed to providing a stabilising influence and policing role in the area or region. The threat to maritime assets ranges from asymmetric to conventional and the need for those assets to have the networked Intelligence, Surveillance and Reconnaissance (ISR) capabilities and the ability to communicate securely to conduct their missions is essential. These missions can range from amphibious operations – raids or demonstrations – to humanitarian assistance, disaster recovery, evacuation operations from unstable areas, peace enforcement and peace-keeping.

Flexible deployment of adaptable, integrated solutions in maritime, littoral and coastal roles supports Maritime Security and Interdiction Operations, Maritime Patrol, Strategic Platform Protection, Counter Drugs and Counter Piracy, Amphibious Operations and Surveillance Aircraft Operations.

Government, Security and Counter Terrorism

The threat from terrorism is very real. An attack could take place at any time, without warning. Acts of terrorism vary in terms of scale and purpose and are not just about violent attacks on people or property; disrupted communications, damaged assets and tarnished reputations can wreak equal havoc.

Intelligence and communication is key to being able to make decisions when and where necessary in order to meet today's security challenges. The ability to analyse data, determine enemy intent and provide information enables government and security agencies to make decisions, deploy assets and counter potential threats.

Utilisation of integrated capabilities for both covert and overt operations, including border protection and surveillance, anti-terrorist over-watch, VIP convoy protection, public event security, key asset protection and urban surveillance is vital in reducing the number, scale and impact of attacks.

Critical National Infrastructure

A nation's infrastructure is made up of facilities, systems, sites and networks necessary for the functioning of the country and the delivery of the essential services which daily life depends upon. In recent years international terrorism and espionage has been the prevailing threat but the increase of state sponsored attacks on a nation's infrastructure is on the increase. Cyber security spans a broad range of issues related to national security, whether through terrorism, crime, industrial espionage or state sponsored attacks. Cyber-crime, whether relating to theft, hacking or denial of service to vital systems, has become a fact of life.

Implementation of security solutions in a multitude of sectors from financial services, communications, health and emergency services to energy, water and transport helps to protect their critical networks and data assets against the increase in modern cyber-attack.



OUR CAPABILITIES



Electronic Warfare

Tactical EW to listen, understand and determine intent to safeguard against current and emerging threats in the most challenging environments.

In today's information battlefield, the need for up-to-the-minute intelligence is vital in supporting the decision-making of commanders on the ground. With the vast amount of radio spectrum in use, the need for reliable and capable solutions is paramount. With ever-changing technologies and targets this necessity must be matched by responsive and versatile solutions that are adaptive to the changing targets and intelligence requirements.

Increasingly, EW is becoming important beyond the sphere of combat in theatre to include the full range of military operations and other national security responsibilities such as Homeland Security and network defence.

With a wealth of knowledge and expertise in the development of EW solutions including Electronic Surveillance Measures (ESM), Electronic Attack (EA) and Counter Measures (ECM), we are able to meet the demanding requirements of modern day Electro-Magnetic Spectrum (EMS) management.



Electronic Surveillance Measures

Our multi-platform ESM solutions enable customers to monitor, track, intercept and analyse all electronic communications to generate a common operational picture and actionable intelligence in order to determine adversary intent.

The SMARTSCAN portfolio of communications intercept equipment provides a highly versatile and rapidly deployable range of modular systems that meet today's tactical EW requirements. The small form factor provides a flexible, agile and rapidly deployable system, ideally suited to tactical EW roles across the land, littoral and air domains for joint operations.



Electronic Attack and Counter Measures

Utilising advanced jamming techniques, our multi-role EA and ECM solutions are designed to provide flexible and targeted jamming of the EMS for force protection, offensive EW and operator training to effectively exploit intelligence gathered in the field.

Using a software-defined architecture, BROADSHIELD products enable complex waveforms to be created and transmitted, with operators able to exploit the very latest field-based intelligence. This agile approach allows for mission-specific deployment in the Counter-Radio Controlled Improvised Explosive Device (C-RCIED) role, or communications denial, deception and EA roles.

Networked Integrated Electronic Warfare

Our multi-role, multi-platform, networked Integrated EW (IEW) solution provides up-to-the-minute actionable intelligence for situational awareness in order to determine adversary intent. Modular and scalable in design, the IEW capability for joint operations supports the location, exploitation and disruption of enemy communications whilst safeguarding blue forces.



Cyber Security

Cyber Security to secure and protect the integrity, confidentiality and availability of infrastructure and information.

In a world where technology develops rapidly, the use of public networks to communicate is a vital component of business, creating an infrastructure where sensitive and highly confidential information can be sent and received from anywhere in the world.

This growing global communication network has revolutionised the way governments, enterprises and businesses operate, allowing instantaneous transfer of the most sensitive information. Whilst the commercial world has driven forward rapid advances

in information technology, the security needed to protect our information has been unable to deliver to the same level.

Emerging as the most important battleground of the information age, unsecured public networks are being attacked frequently and aggressively by anyone from state sponsored terrorists to political hacktivists.

A more sophisticated solution is required, one which anticipates threats and adapts appropriately, without inhibiting the availability of this vital data.



Secure Network Communications

The safe utilisation of public and private networks to communicate at both classified and unclassified levels via any IP network in the world enables strategic and tactical operations in mobile, remote and challenging environments. The ability to protect these networks against suspicious and malicious activity and unauthorised connections is vital in ensuring highly sensitive messages are not intercepted or impeded.

Encryption, the process of encoding messages or information in such a way that only authorised parties can read it, continues to be the only reliable method of securing these communications.

CATAPAN – our Government Grade secure network communication (encryption) solutions – deliver the most stringent security across public and private networks, from the strategic or enterprise down to highly tactical and mobile requirements. Deploying our solutions provides a completely secure network which can be utilised for voice, video and data transmission over any communications bearer.



Critical National Infrastructure Security

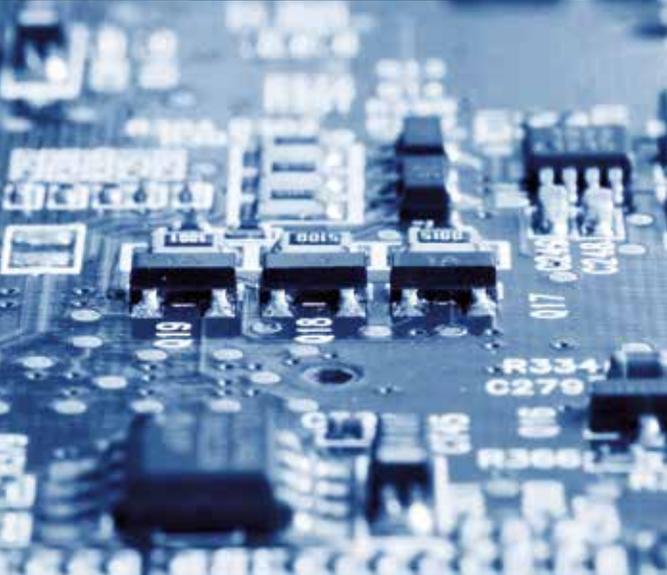
IGUANA Security is a new brand developed specifically for Critical National Infrastructure (CNI), but equally applicable to other organisations with high value assets. Providing organisations such as energy providers, banks and corporations with the necessary security functions to protect the availability, integrity and confidentiality of their infrastructure and information is critical.

IGUANABlue provides resilient hardware enforced security for Industrial Automation and Control Systems. It doesn't rely on a single firewall, run on a single processor or use a single set of software. It's highly resistant to attacks; protecting against the risk of breaking through the equipment it protects. Created with flexible, future looking architecture, IGUANABlue raises the bar of cyber security at multiple levels in the network.

Based on the same architecture and security aspects of the CATAPAN Secure Network Communication solutions, IGUANAGreen has been designed to provide commercial organisations with the capability to securely send and receive sensitive information, whilst harnessing the flexibility of local IP networks and protecting data from the increasing threat of cyber-attack.



OUR APPROACH



Best of breed is our pedigree

Our track record of innovation and product excellence can be attributed to our beginnings as a technology company. Originally focused on externally funded research and development activities, we have worked closely with government and security agencies on specialised, secure projects. Customers can trust in our depth of knowledge to provide consistently cutting-edge solutions.

The highest levels of product performance are paramount. We provide intelligent, proprietary solutions that allow no room for error. Our approach is one of 'listen, interpret and develop'. We listen to what our customers need, interpret these requirements and use our problem solving capabilities to develop a solution that performs to the highest standards in every scenario.

Our customers benefit from peace of mind as well as solution excellence. By choosing L3 TRL, you are making a safe decision, from your own point of view and that of your end users.

Award-winning products

The Queen's Awards is a programme for British businesses and other organisations who excel at international trade, innovation or sustainable development. They are the highest official UK awards for British businesses.

L3 TRL has received this accolade on three separate occasions; International Trade for our provision of products, systems and support services to Counter Terrorism and other subversive threats worldwide. Continuous Innovation was awarded for the improvements to our family of Counter-RCIED solutions in terms of Size, Weight and Power (SWaP), allowing for smaller, more powerful and more capable products designed to deliver a superior level of protection. Outstanding Innovation was also achieved for our Government Grade encryption solution – CATAPAN, the most advanced device of its kind in the UK that protects and secures highly classified networks.



Research and development

L3 TRL is a company with its roots firmly in R&D. Our products are innovative, cutting-edge and at the very forefront of EW and Cyber Security development. We provide in-house development across all related disciplines, from Systems Engineering to Digital Signal Processing to software development. This technical capability is combined with analysis that affords a genuine technical understanding of threats as they emerge.

Quality assurance

Quality assurance and continuous improvement are at the heart of all L3 TRL activity which has resulted in a strong quality record with customers. We have a number of accreditations and management systems in place including ISO 9001 – Quality Management System, ISO 14001 – Environmental Management System, OHSAS 18001 – Health & Safety Management System and ISO 27001 – Information Security Management System.

In addition, we have two purpose-equipped, lean manufacturing centres offering a wide range of facilities from prototyping runs to full-scale medium-to-high volume production, with separate secure areas for classified projects. We have invested in state-of-the-art production and testing equipment to ensure efficiency is maximised and the highest standards in product quality are achieved at every level.

Training and consultancy

We have a variety of training courses that provide customers with the essential skills and technical knowledge to fully utilise the functionality of our equipment in a variety of tactical and strategic scenarios to optimise its effectiveness.

Although our training addresses the need for personnel to understand, programme and deploy our systems, there is no substitute for experience. We can offer a consultative range of operational and engineering knowledge that is unrivalled in the marketplace. We also offer information and advice on how to fully maximise each solution, including aspects such as field testing, platform integration, specific scenarios and the interpretation of data.

Through-life support

To ensure our customers gain the most from our world-leading products, we offer support from the first point of contact and on through the life of the requirement. From the outset we can provide advice on requirements and how best these can be met, optimal solutions and how they can be implemented and, above all else, we address the issue of affordability. The most effective solution to meet individual needs and operational requirements will be offered with a view to achieving lower total cost of ownership for the customer.

Tailored solutions

We are committed to providing versatile solutions that can evolve as threats change and technologies advance. We have a long history of working directly with customers to design, develop and deliver tailored solutions that counter specific threats and address particular operational constraints.





OUR VALUES



How we stay one step ahead

Our core values are at the heart of everything we do and are what drive our organisation towards growth and success.

Acting with Integrity

Our expertise is critical in safeguarding people, environments and assets, so we share a strong sense of purpose and of doing the right thing. We stand by the values that define us; we are honest, principled and earn trust by delivering on our promises and expecting the highest standards from ourselves and our colleagues. Remaining one step ahead while acting with integrity requires a sense of pride, resolve and ethical behaviour.

Delivering Excellence

We pursue exceptional quality in all we do, applying technical superiority to exceed standards and achieve 'best of breed' performance to become leaders in our field and a supplier/partner of choice. Delivering excellence requires us to be inventive, diligent and smart.

Working in Partnership

Between ourselves, our partners and our customers, we achieve more and succeed faster through collaboration and joint endeavour. Whether in joint development, customer-funded research, providing in-country support, operating Integrated Project Teams or delivering training, support and consultancy, we work best when we work together.

Respecting People

Within the company we encourage diversity and tolerance, valuing the contribution and ideas that spring from people with a range of views and opinions. We listen, encourage openness and treat people as we ourselves would want to be treated, helping everybody to maintain a healthy work/life balance. In our dealings with partners and customers we extend the same respect, responding appropriately to different cultures and working practices.

Focussed on the Future

Our Mission is to combat evolving and emerging threats. The adversary doesn't stand still, so neither can we. By investing in innovation, research, development and the skills of all our people we can anticipate market needs and remain one step ahead. Looking ahead also informs our role in the community and the wider world, so we act as good corporate citizens, promote social responsibility and do all we can to be a more sustainable business.

*BROADSHIELD and CATAPAN are registered trademarks of TRL Technology Ltd. All L3 TRL systems incorporate classified technology and are subject to strict export regulations. Selected information will only be disclosed to authorised personnel and organisations upon enquiry.



L3 TRL Technology
11 Shannon Way, Tewkesbury
Gloucestershire, GL20 8ND
United Kingdom

T: +44 (0) 1684 278700
F: +44 (0) 1684 850406
E: info.tri@L3T.com
www.L3T.com/TRL

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