

Electronic Warfare

Catch the right frequency

Expertise in electronic warfare. The electro-magnetic spectrum is a crowded place. It's where everyone wants to be. Along with the highly demanding commercial sector, everyone – from friendly to civilian to hostile forces – wants a slice, often the same slice.

THE CHALLENGE

Managing information in Electronic Warfare

Especially in Electronic Warfare (EW), this finite and increasingly contested resource poses challenges: How to comprehend your adversaries' use of the spectrum and turn it to your advantage? How to make sure you get your piece of the spectrum and use it effectively?

Our Information Enabled Capability (IEC) approach focuses on improving the management of the information generated by the large number of spectrum-dependent systems and then exploit it in order to gain decision making advantage. This IEC approach:

- improves the protection of military capability
- gains valuable information of a user's location and future intentions and
- possibly denies the use of the spectrum to adversaries.

OUR ANSWER

Information management in the context of EW needs to be done differently – diverging from the traditional approach that cannot adequately meet current and, most importantly, future demands. Different end user communities have different information needs. This has resulted in the development of stove-piped systems. These are rather 'narrow' in scope and use a fragmented approach. While these systems may meet local requirements, they only have limited ability to contribute to the broader increasing need to share information.

At CGI, we focus on developing information services and processes that are common across communities whilst accommodating their individual needs. Our IEC approach recognises communities of interest but breaks down barriers by allowing information to flow much more freely between them. There's vast improvement in the reuse of information and subsequent more efficient tasking of collection assets. We believe in 'access to and influence on' approach for information rather than being hung up on 'who owns the collector'.

The international and collaborative context

This is not just a UK problem. Coalition operations can involve up to 50 countries working together and there is a shared responsibility to securely manage EW information between partners. Being at the heart of both NATO



KEY BENEFITS

- Expertise in Electronic Warfare: consultants drawn from all three services and OGDs
- Innovative, enterprise wide approach: for information and process services across multiple sectors
- Manufacturer independent access: to latest IM/IA/IX technology in public and private sectors
- Security accreditation; training and IT system integration: to enhance Information Assurance for the Electronic Warfare domain.

and the Five Eyes community, we understand common needs and therefore design solutions with interoperability at the core.

Modern electronic operations are complex; tactical and strategic needs can coincide. The equipment landscape ranges from man-pack to airborne and remote collection facilities, where mobile and ground stations strive to link together within a Single SIGINT Battlespace. Offering innovative systems integration solutions in this environment we can provide the commander the services he needs to achieve the outcomes he desires. In every aspect of EW, from developing training material to conducting security risk assessments, from thought leadership on spectrum dominance to delivering EW systems with long-term support, the UK Ministry of Defence (MOD) trusts us to deliver.

The need to innovate

Our solutions are based on a best-of-breed technical approach combining agile delivery with dynamic domain insight. This was demonstrated by the CGI led Team Excalibur that has been chosen by the UK MOD to help transform the UK Defence EW Centre through Project SHEPHERD.

The need to share

CGI has the largest IT security consultancy in the UK and recognise that information assurance is the key to protecting EW capabilities. We understand the need to balance the drive for more agile, flexible and capable EW systems with the need to protect against compromise. Supporting the move from 'need to know' to an assured 'need to share' approach, we lead the way in risk-based security accreditation. Our CESG qualified experts offer a wealth of experience to support the accreditation of even the most complex and sensitive systems for the MOD and other government departments.

The need to train

Traditionally, EW procurements have been heavily focused on equipment. There is less emphasis on whether end users can exploit the systems to full potential or not. We can make a difference through our blended training solutions and professional trainers who know the business, and recognize various needs of the individual services. We clearly understand the difference between the EW tasks; indicators and warnings, intercept and reporting and so on. Our training programmes are appropriately tuned to specific needs. We also provide EW consultancy, using our position of vendor neutrality to shape EW developments based on end user needs and not just equipment capabilities.

WHY CGI

We are a large, independent and highly capable IT systems integrator. Our track record in EW, Defence and Security is well-proven and our spectrum management capability is widely recognised. We offer solutions to manage this vital resource alongside EW to dominate the Electro- Magnetic Operating Environment. Information Management is a challenge in many industry sectors. Our clients, in the public and commercial sectors, rely on us to tackle complex information management and business process needs. You can bank on this experience to confidently address the EW challenge in defence.

The projects referenced in this document were delivered by Logica, which CGI acquired in August 2012

ABOUT CGI

With over 68,000 professionals in 40 countries, CGI fosters local accountability for client success while bringing global delivery capabilities to clients' front doors.

Founded in 1976, CGI applies a disciplined delivery approach that has achieved an industry-leading track record of on-time, on-budget projects.

For 40 years we have worked with Defence in the UK, US, Canada, Australia and across Europe and have over 6,000 Defence and Security professionals working across the Five Eyes and NATO community.

Together we deliver large-scale, complex programmes across operations, security, intelligence, communications, personnel systems, logistics and infrastructure.

In the UK we are ranked as a top 5 Defence SITS supplier and we focus on delivering Information Enabled Capability (IEC) across the Defence domain.

Our high-quality business consulting, systems integration and outsourcing services help clients leverage current investments while adopting new technology and business strategies that achieve top and bottom line results.

As a demonstration of our commitment, our average client satisfaction score for the past 10 years has measured consistently higher than 9 out of 10.

For more information about CGI, visit www.cgi-group.co.uk/defence or email us at info@cgi-group.com or tel: +44 (0) 0845 0707765

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