

Military Space

Military Space plays an essential role in defence infrastructure, applications and the supply of information. Modern day military capability requirements cannot be met without satellites and space based applications, as they provide data, communication and information to help decision making.

THE CHALLENGE

The Defence industry has a major challenge on its hands. In a hostile environment like space, they need to use technologies that are proven to work. Also, Defence no longer benefits from getting first access to cutting edge technologies – instead they need to pull these through from commercial markets such as the telecom, navigation and earth observation sectors. The dilemma is that these commercial off-the-shelf products and systems don't always have the security levels needed for defence or the flexibility to cater for the specific needs of the modern day war fighter.

Fortunately this is the kind of challenge we like solving.

OUR APPROACH

We are great problem solvers

We can help the Defence industry benefit from the power of commercial solutions and use them in the military space arena. We did this for Skynet 5. To do this, we teamed up a group of our telecom experts with a group of our space and defence experts and they solved the problem.

Imagine an enhanced Telecom Operating Map ® system adapted to a military setting where multilevel security is a given. We know how to do this because we've resolved the conflict between the 'open access' architectures the commercial industries enjoy, with the more controlled approach defence must take.

We don't just copy things off the shelf

We don't just copy things off the shelf. We map the latest commercial solutions to your unique military needs. Our domain and software experts adapt the latest sophisticated technologies to the most difficult applications. We have more than 25 years of experience in developing applications for the Military Space sector, using tailored techniques such as rapid prototyping to help bring your visions to life.

We can help the defence industry benefit from the power of these commercial solutions and use them in the military space arena in order to support its war fighters with the Information Enabled Capability (IEC) that is key to modern military success.



"What Skynet 5 required was leadership... Leadership is about visionary activity, and motivation, and setting direction so it was nice to see that CGI stepped up very much to the challenge of doing those things and behaving in a different way."

EADS ASTRIUM

A modular, layered and integrated approach

Our experience has shown that a modular approach is generally best, and our clients often prefer this too. This way we keep functionality and structure apart – for greater flexibility. Changes in one module do not affect the other modules, yet the modules still work together seamlessly and while we are talking about change, you don't have to change what you already have and depend on – your existing systems. We power it with new technology. Legacy systems will remain stable as we build a layer on top – like a bridge between the old and new.

Don't reinvent the wheel

These are a few of the things we have done before and you can benefit from them too:

- configuration management - service planning, satcom planning, baseband planning, plan dissemination, space segment planning and implementation on remotes/mobiles with over-the air management capability
- end-to-end provisioning and fault management - fault visualisation, alarm aggregation, access monitoring and response to stress
- accounting and performance management - full quality of service (QoS) implementation, billing deductions, account statements and pricing
- customer relationship management and automated service order capture - web access, developing a catalogue of services, workflows and trouble tickets
- operational and business support systems (OSS/BSS)
- systems for navigation, location based and earth observation services
- content management systems and mobile applications
- SME consultancy in all the above

We listen so we can speak your language

We adapt ourselves so your needs are met. Whatever your satellite communication and information needs, we can help you blend custom built solutions with your existing systems and COTS. That means you will be able to take advantage of all the things the commercial sectors are raving about – faster deployment, better functionality, easier maintenance and greater flexibility. We engage across your organisation to explore different implementation methods, like phased roll-out and automated data migration. We are transparent and as we re-energise your old systems with new technology, we also look for ways to build trust, help others learn and adapt to change. It's part of our commitment to create great systems that empower your whole organisation.

WHY CGI?

We have been in this business for over 35 years. For the past 15 years we have helped Skynet 5 benefit from the power of commercial telecom technologies. We have shown that the technologies from the commercial world can be made to work in a military environment.

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 over 35 years we have worked in the Space industry delivering complex, mission-critical space systems. Our solutions are secure, often in complex technical environments, proven to work first time, every time, ultra-reliable and delivered on time to avoid costly delays.

We work on the major European navigation, communication and earth observation programmes and are specialists in space security and ground control systems. We share innovative uses of space and satellite technology with commercial organisations to help them solve their business problems effectively. Our software has supported the missions of more than 200 satellites.

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/space or email info.eu@cgi.com or tel: +44 (0) 845 070 7765

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