



## **Defence Sector Solutions**

Our specialised service delivers critical path infrastructure to a wide range of clients requiring secure solutions including; Ministry of Defence, The Police Service and other key elements of the Defence and Security Sector.



**Our team possesses a wealth of experience of delivering critical infrastructure to the Defence sector. Many of our core personnel are ex-UK Military, SCIDA trained with a detailed understanding of compliance with MOD technical build standards (Defence Standards JSP). Energy efficiency sits at the core of our solutions and will fulfil the obligations NGECC contractors hold regarding identification of energy saving initiatives. You can be assured that our collaborative approach will deliver robust solutions that will meet both your technical and commercial objectives.**

### **How we can help you...**

**Need to access data immediately? 24/7 Access** - By opting for our On-Premise Data Centre solution you will have full access and control over your IT infrastructure system enabling you to access records as and when required with the added reassurance of complete security.

**Can't afford for equipment failure? Resilience** - We only use products from supply partners with recognised quality credentials. All our data centre solutions are expertly engineered and all products used conform where applicable to the relevant British (EN) Standards and carry CE, WEEE and RoHS markings.

**Need optimum security? Security** - All our installations comply with the requirements of JSP604 - Communication and Information Systems; JSP440 - Security; JSP375 - Health & Safety; CPNI & LPCB Approved Security Equipment & Infrastructure.

**Need to relocate quickly? Rapid Deployment** - Our pre-fabricated modular data centre solutions provide complete flexibility, delivering a scalable approach to data centre planning and design allowing pods to be pre-engineered, tested and commissioned prior to delivery. Our modular systems are CPNI Approved.



## Workspace Technology Deploys New UK Energy Efficient Data Centre for Defence Infrastructure Organisation (DIO)

The DIO plays a vital role in supporting our armed forces by building, maintaining and servicing all the critical infrastructure required to support the MOD and its operations. The DIO recognised that their legacy data centre was inefficient and unsustainable for current use and future growth. As a result, they initiated a systematic program to enable a streamlined mechanism to deliver the project, modernise and improve the physical critical infrastructure, reduce energy consumption and increase operational efficiency including reducing the frequency of maintenance schedules.

### DIO Data Centre Blueprint benefits.

- Standardised Model
- Energy Efficient
- Resilience
- Security
- Adaptable, Scalable & Re-Deployable
- Rapidly Deployable
- Easily Maintainable
- Cost Effective





## The Challenge

The DIO selected specialist data centre design and build contractor Workspace Technology, to provide them with the DIO's 'Next Generation' data centre that would be used as the design blueprint for all forthcoming data centre projects.

The design needed to meet the requirements of both the MOD 'spend to save' initiative and that of the Defence Sustainable Development Strategy. A key requirement is to utilise new energy efficient technology that reduces energy consumption, delivers operational excellence, resilience and security enabling maximum value for the tax payer's pound.

## The Solution

Workspace Technology delivered the project which included designing a diverse, highly efficient modular infrastructure. The project saw the construction of a room with secure modular composite panels, electrical switchgear & distribution, expansion of existing Schneider Electric/APC UPS systems, equipment racks, aisle containment, structured cabling and InRow cooling systems. Also deployed was a 400kVA generator set with custom built external switchgear. All installations were completed in-line with current MOD JSP Standards.

A complete wraparound 24/7 planned preventative and emergency call-out maintenance and optimisation support package formed part of the project offering providing complete peace of mind.

The required level of security combined with rapid construction deployment were crucial to the success of the project. Workspace Technology selected a specialist 'pre-engineered' unique high security composite system delivering robust levels of security; protecting against attack, fire, water and temperature. This industry leading UK manufactured product ensured full compliance creating the 'white space' for the internal data centre fit out phase.

A strict design, review and agreement regime was implemented by Workspace Technology throughout the project to ensure that the delivery team were able to engineer to absolute levels of accuracy, which ensured first time success. This was supported by input from our ex-military engineers who ensured our full compliance with the latest MOD JSP Standards for all aspects of the design.

## The Benefits

Through the incorporation of specialist energy monitoring technology, the latest in energy efficient devices, including UPS and PDU systems, combined and operated by real time Data Centre Infrastructure Management (DCIM) platform, the DIO operates a data centre that performs at an industry leading level of efficiency of sub 1.25 PUE compared to the original PUE level of 2.0.

The DIO's investment in their new energy efficient and scalable micro data centre facility is forecasted to save approximately £100,000 a year on energy costs. Through the successful investment in effective network critical physical infrastructure (NCPI), the facility's efficiency has almost doubled. This has resulted in a significant reduction in carbon emissions and overall power consumption within this next generation, scalable and adaptable network environment, which is ready to support ever changing operational IT requirements.

Additionally, the DIO now has a data centre design that can be easily replicated without the requirement for additional investment in future consultant costs.



# Added Value for the Defence Sector



## Sustainability

The UK Governments' 'Strategy for Sustainable Construction' is embedded within our business practices and captured within our EcoDesign™ strategy.

Designed to significantly contribute towards delivering sustainable construction and represents our commitment to helping you to reduce your carbon footprint through the deployment of energy efficient technology and design.



## Quality Assurance

We only use or employ manufacturers and suppliers with recognised data centre and critical infrastructure equipment credentials.

All products conform to the relevant British (EN) Standards and also carry CE, WEEE, RoHS markings and where relevant CPNI Approved SRS security products are available.



## Funding Support

We assist defence providers with the funding of your project and offer an array of options to help spread the cost and to measure your ROI:

- Performance Contracting
- Lease & Contract Hire
- Grant Support



## Security

Our personnel routinely work within secure environments, holding a keen understanding of the restrictions, regulations, requirements and the obligations of working within the Defence and Security sector.

Our site operatives hold Security Checked (SC) status.



## Health & Safety

We pride ourselves on achieving our zero accident target which is due to our holistic approach to Health & Safety.

Our employees have a full working knowledge of JSP 375 requirements which are embedded into our standard working practices.



## Pentagon 360 Service

Delivering: 100% in-house

- Consultancy
- Design
- Build
- Maintenance
- Support

## Interested in finding out more?

Our friendly team are on hand to take your call on 0121 354 4894 or send us an email at [sales@workspace-technology.com](mailto:sales@workspace-technology.com)

[www.workspace-technology.com](http://www.workspace-technology.com)