

# Staff Working Environment



G3systems

- The G3 Staff Working environment solution is designed to provide high quality ergonomic office workspace in the field
- Configured using Proven In Service Equipment - utilising established, in service systems including:
  - Quonset (hemispherical) military soft walled shelters providing high physical strength, maximum workspace and ergonomic environment
  - Mobile man portable high performance environmental control systems
  - Blakley Electrics Power Distribution Equipment, with a demonstrated compatibility with In Service Power Generation Equipment (FEPS) and LAPDS lighting system
  - Rolatrac Flooring
- Demonstrated performance across the worldwide Climatic Range
- System Modularity, Flexibility & Configurability - enabling multiple deployment configurations and Scaling of Head Quarters facilities
- Commonality of components and inter-connections with other In Service Systems - enabling ready system inter-connection
- Built in facilities for handling Communications, IT and data cabling infrastructure
- A Safe Working Environment
- Ease of Deployment - with minimal MHE requirements and a proven erection sequence
- Reduced Training requirement through low parts count and use of existing in service equipment



# Specification



The Interim Staff Working Environment solution originally selected by the UK Army enables the provision of 4 Small Scale Headquarters (SSHQ), with the ability to upgrade to 2 Medium Scale Headquarters (MSHQ). Each Headquarter configuration provides the required safe sheltered working space for either 80 staff (SSHQ) or 175 staff (MSHQ).

The system utilises proven shelter designs from the Alaska Military Shelter range, against a specified configuration, with the ability to change as and when required. The shelters are complimented with the use of Environmental Conditioning Units (ECU's), providing a single source for both air conditioned and heated air, that interfaces with fitted air distribution systems throughout the complex.

The general services that are made available throughout the shelter complexes as part of the ISWE scope of supply are:

- 400V 3ph supply for Environmental Conditioning Units
- 240V 1ph distributed outlets per shelter
- Over-head 5ft lighting assemblies rated at IP67
- Over-head emergency 5ft lighting assemblies, rated at IP67, with switchable backup batteries
- Emergency Bulkhead luminaries with switchable backup batteries for every shelter exit
- Interlinked battery operated Fire Alarm systems for every shelter exit

ISWE uses four sizes of shelter, ranging from 19.5ft long to 65ft long, and a common vestibule design to enable environmental and light retaining interfaces between them. Both 16ft and 20ft wide shelters incorporate common design characteristics which are:

- Steel frame
- NATO green outer fabric throughout
- Removable internal liners
- Cable and ECU ports
- No windows
- Direct shelter to shelter interconnectivity
- Internal conditioned air distribution system
- Water resistive ground protection system

The ISWE system incorporates ABS Rola-Trac flooring that will fit into all shelters and vestibules. It is hard wearing and non conductive, with its primary function to protect the shelter PVC ground sheets. It is extremely light and portable and has a non-slip and non-reflective surface for pedestrian safety.

The ISWE power distribution system incorporates staged distribution for both 400V 3ph and 240V 1ph supplies by the interfacing of Generator Interface Units, Power Splitter Units, Environmental Conditioning Unit Power Supply Units, Shelter Distribution Units and 13A power distribution unit, via a combination of supplied adaptor and extension cables. For ease of identification the relevant power distribution cable systems for 400V, 240V and 110V are colour coded, either with the cable itself or the connectors.

All elements of ISWE may be transported initially in a standard 20ft ISO container by road, rail, sea and air. All components of the ISWE are man-portable in packages no heavier than 100Kg. The G3 ISWE design enables it to be deployed to theatres of operation world wide and re-deployed without the need to return to base. Site deployment and erection can be achieved without the need for third party moving or lifting equipment, by use of supplied Mechanical Handling Equipment.

Tailor made versions of this system can be produced by G3 Systems on request.

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