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WIGGLE

## A safe & secure Modular Data Centre for a 'Titanic Warehouse'

### THE CHALLENGE

Wiggle Ltd have taken on a large warehouse facility in the Midlands, just outside Wolverhampton, which is 321000 sq ft and could accommodate almost 5 football pitches. Within this warehouse they needed a new comms room to support the new operation and Comms Room Services were employed for the task.

Wiggle required supporting infrastructure designed for a 'Day 1' operation of 4 cabinets and with the capability of expansion to 8 cabinets not only to meet current industry standards but with resilience designed in to ensure business continuity and Capacity for future growth.

### THE SOLUTION

Comms Room Services designed the concept and then built a 6-sided Modular solution on site complete with a ramp to allow easy installation of future cabinets and IT equipment.

The 60 minute fire rated modular structure was built within 5 days UPSs were installed in an N+1 configuration with dual distribution boards ensuring that back-up power is always available whilst also allowing for maintenance to be carried-out on one board whilst the other supports the IT load. PDUs were provided within each server rack to provide a more resilient solution than providing individual commando sockets Comms Room Services always apply some forward thinking into every design and even though a generator was not part of the scope of this project, they installed a manual generator changeover panel and hook up point to enable connection to a generator in the event of a power failure.

A FM200 fire suppression system combined with the Comms Room Services Shut Down system was installed. In the event of a fire within the protected area it is critical to be able to automatically close down the room and remove one of the major fire elements the "power". The Comms Room Services services "**Fire Shut down System**" does this in a controlled logical process to initiates a controlled and graceful shutdown of the room's systems to conserve business-critical data and equipment as far as possible and to which, remove the power to the room if a fire is detected to reduce the risk of a fire re-igniting.



Above: The Modular Data Centre under construction

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With energy efficiency always being key in Comms Room Services designs, inverter driven air conditioning units were installed along with energy saving LED lighting to suit the cabinet layout with a PIR lights out facility.

For environmental monitoring, a Call out system was installed with a room over temperature module providing text notifications of critical alarms 24/7 and minor alarms requiring engineer attention.

### THE BENEFITS

The new Modular Data Centre within this impressive warehouse ensures that the IT operations of Wiggle are safe guarded in the event of flood or fire and as Wiggle continues to grow they will have peace of mind that their IT infrastructure can grow with it easily.

Wiggle now has an IT infrastructure with built-in resilience for business continuity that will serve them

“From first engaging with Comms Room Services and throughout the tender process, it was clear that they are specialists in their field of data centre design and build.

The proposal we received was very detailed and more than satisfied all requirements from both an IT perspective and also from what was required from the business as a whole.

Comms Room Services were very accommodating, in particular with the tight timelines we were faced with, and we are very happy that we have a solution ‘fit for purpose’ and will support the IT operation for the life of the warehouse.

Mark Bull – Senior IT Project Manager  
Wiggle



### About Wiggle

The origins of Wiggle can be traced back to a small independent bike shop called Butler Cycles which had been trading since the 1920s and Wiggle officially started trading in 1999.

From Wiggle’s beginning that started with a handful of staff, they now employ over 350 people and are still growing.

Wiggle employs sports enthusiasts who are passionate about cycling and their aim is to give as many people as possible the choice to access cycling and tri-sports.

