

## 472 Wood Group Mustang Case Study

### A brand new server room for Woking and a new DR site for Houston

#### THE CHALLENGE

Wood Group Mustang has a worldwide reputation for quality engineering, design, project management and construction management services to the oil and gas and related industries. With its headquarters in Houston, Texas, the company employs over 8,000 people worldwide.

With several large projects in the pipeline, the UK office, based in Woking, decided to invest in a new 'state of the art' server room as, due to business growth, their existing facility was running at full capacity and was no longer fit for purpose.

Wood Group Mustang had a choice of buildings and a very changing scope, with the location changing up to four times, however Comms Room Services provided the service and support required at every stage until the final choice was made.

A major challenge was that the land lord of the final chosen building had problems relating to their emergency power supply so generator provisions had to be factored into the design.

“Comms Room Service were a true turnkey contractor. They managed the entire project from design through to hand over.”

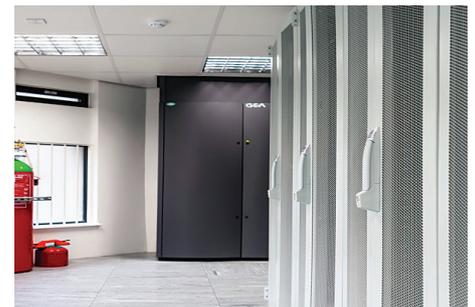
Simon Ranson, IT Manager  
Wood Group Mustang.

#### THE SOLUTION

Comms Room Services proposed and implemented a solution of a Main Server Room with a separate UPS room and separate IT Store Room within a new space created from these three separate rooms knocked into one. Wood Group Mustang required N+1 resilience, security, protection against external and internal fires, energy efficiency and controlled shut-down and remote monitoring of the server room conditions.

4 x 28kw down draft air conditioning units were installed in the Server Room and 2 x 5kw wall mounted units in the UPS Room. 2 x 80kva UPS units were installed with a run time of 30 minutes at full load and fire suppression systems with gas extraction fitted into each room.

Siting of a 225kva generator posed a particular challenge as a contract crane had to be squeezed into a very narrow space between the shopping centre and the building in question, to lift the generator 50m up into position on the first floor roof.



The finished room. 4 x 28kw AC units, cold aisle enclosure & gas bottle



UPS Room. 2 x 80kva units

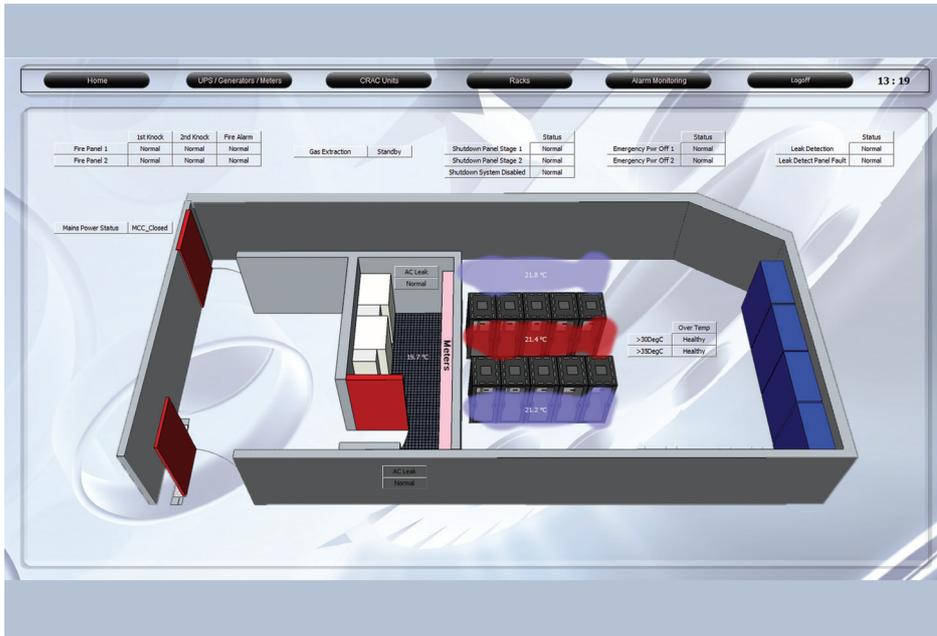


The 225kva generator in position on the roof



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DCIM screen shot



The crane in a tight squeeze



Server Room. Cold Aisle Enclosure

This construction saw the unveiling of Comms Room Services' new Enhanced Environmental System which provides a 'user friendly' graphical interface; offering flexibility and convenience of remote monitoring and control of all of the equipment in the data centre. This enables temperature and humidity set points to be updated and critical indicators to be checked via web access. Importantly you are provided with constant real time PUE measurements giving you the flexibility of tweaking the temperature in your data centre to provide the best PUE possible.

### THE BENEFITS

The new server room provides multiple benefits to Wood Group Mustang; as well as being a brand new state of the art data centre, it provides maximum efficiency, offers space for expansion and they are also able to take on the Disaster Recovery role from their Houston office which is particularly vulnerable to Gulf Coast hurricanes for almost half of each year.



Work on the roof: The steel frame for siting the crane and AC condensers being put in place



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