

"we do it live!"



Comms Room Services

- Server room specialists
- Consultancy, design, build – we work with you at all stages
- New build
- Refurbishment or relocation – of existing facility
- *"we do it live!"* – reduced or no down-time – the infrastructure is maintained
- *"we do it live!"* – continuity of business – we build around you in a live environment
- ISO 9001 registered – quality assured at every stage



Service promise

Comms Room Services is a progressive company, committed to customer satisfaction and operating to industry best practices and standards. Providing on-site project management from start to finish, we always put our customers' requirements first and are focused on delivering the most efficient and effective solutions possible. Comms Room Services is an ISO 9001 accredited company.

COMMS ROOM
SERVICES

Services

3-stage design package

Through our design service, we will prepare a detailed, packaged solution – to suit your requirements – on the design and build or refurbishment of your comms room.

- **Stage 1:** Site survey detailing current comms room environment. Listening to your requirements on future needs including discussions with the project team
- **Stage 2:** Preparation of a detailed solution incorporating comprehensive build specification with justifications and product specification – a fully costed proposal with options
- **Stage 3:** Presentation of the proposal, explaining and discussing all aspects of the proposal



Planned preventative maintenance

Comms Room Services will arrange a year in advance schedule of planned preventative maintenance visits to ensure that your fire suppression, UPS, air-conditioning, callout system, shutdown system and generator are kept running in optimum condition; to prevent breakdown and ensure the smooth running of your business continuity. For air-conditioning and UPS the service fee is fully comprehensive and includes:

- The cost of all materials used during routine maintenance unless stated in exclusions
- The labour and travel costs incurred by routine maintenance and emergency service visits



Emergency callout service

With our maintenance package, your generator, fuel deliveries for your generator, electrical system, air-conditioning and UPS will qualify for our Emergency Callout Service which operates all year round:

- 24/7 365 cover
- 4 hour response
- National coverage throughout the UK
- The cost of all materials used during the emergency call out, unless stated in exclusions
- The labour and travel costs incurred during the emergency call out, unless stated in exclusions
- High availability – we operate 3 emergency call centres nationally



New build, construction and refurbishment

- Complete design and construction
- Modular comms rooms
- Detailed plan of each stage prior to implementation
- Structured and controlled migration process
- Raised floors
- Ceilings
- Security
- Power
- Air-conditioning
- Data cabinets
- Server racking
- Generators
- Room monitoring systems
- Emergency callout system
- Fire suppression
- Shutdown systems
- Gas extraction systems
- Room sealing
- Pressure testing
- Door access control
- Electrical installation
- UPS systems and generators
- Equipment enclosures
- Voice and data cabling
- Fire rated rooms – 30, 60 and 90 minute
- Detailed plan of each stage prior to implementation
- Structured and controlled migration process
- Re-patching
- Work around your live network – *“we do it live!”*



Products

MODULAR ROOM SYSTEMS

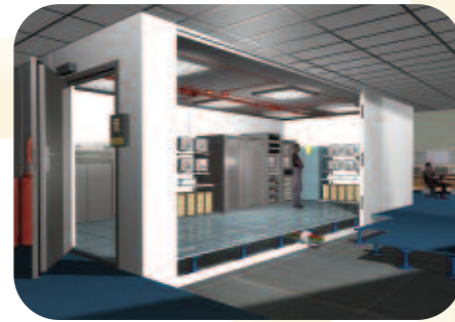
- High structural strength with 'walk on' ceilings
- Water, smoke and gas tight being steel faced with non porous core, sealed interlocking joints, doors and cable/pipe entry points
- No wet trades – hence clean and quick to build in any environment
- No plaster dust to contaminate hardware
- Maintenance free wipe clean surfaces
- Easy to extend, store or relocate
- No dependence on existing building fabric
- High sound attenuation (up to 45 db)
- Rodent resistant
- 0.18 U value gives the required level of heat protection for hardware in the event of a fire and effectively eliminates solar gain – to provide a stable environment for air handling systems
- Inter-locking panels can be moved and reused
- Protected cable and service entry points
- Intrusion and blast tested (ModuSec-2 & 3)
- Testing and certification (BS476 pt22, LPS 1208 Fr90 and LPS 1181 pt 2 int. grade 1, IMO A60, Lloyds approved)

Door systems

- Single or double main entry
- Emergency exit
- Double rebated door and frame with heat, smoke and water seals all round
- Standard or high security – SEAP Class 2 or 3
- F60 or F90 fire protection
- Optional access control

Advantages over traditional build structures include:

- Quick and clean to build to certified standards (LPS 1208 Fr90 and BS476 pt22)
- Easily extended or relocated
- High integrity and insulation for computing systems in the event of an external fire
- Eliminates solar gain
- Increased protection from smoke, water, dust, EMP, vandalism, sabotage, theft and explosion
- Pre-finished, maintenance-free surfaces
- Creates office environment or warehouse space



Fire suppression

- Fully-automatic, complete room protection
- Fully-integrated solution with UPS and air-conditioning shut down
- Optional early warning air sampling detector
- Environmentally-friendly gas



Uninterruptible power supplies

Protection against:

- Power outages
- Electrical disturbances
- Data loss
- Loss of function
- Down time
- Self monitoring
- Resilient power supply



Data cabinets

- Enclosures and data cabinets based on a simple modular system, with a common chassis
- Wide range of accessories
- Flexibility and versatility



False ceilings

- Return and air-conditioning ducting. 'Hot isle cold isle' solutions
- Range of materials and production
- High level of architectural design



Air-conditioning

- Designed and built to be operational 24/7
- Modular design – fits any size of room
- Down draft air flow systems
- Dust-free environment



Power design

- Generators
- UPS
- Electrical design/infrastructure
- Emergency generator, lighting and power protection
- Resilient power supply
- Clean power supply



East Midlands Development Agency (EMDA)

Based in Nottingham, EMDA is one of nine English Regional Development Agencies. Established in 1999, the Agency's aim is to bring a regional focus to economic development within its area.

EMDA's requirement was to create a new equipment build and prep area as the existing environment within the server room was cold and uncomfortable for staff to work in. Comms Room Services were asked to carry out a health check of the existing room and propose improvements that would also allow for a comfortable equipment build and prep area.

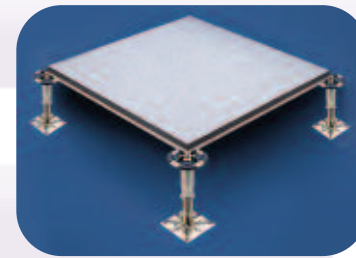
The solution: refurbishing the existing room and building a fire rated and gas sealed wall while ensuring that the room was also gas sealed. The solution included a shut down system that – in the event of a fire – would protect equipment, a water detection system, a gas extraction system to vent the room if fire suppressant is released, a complete power installation and distribution system (down to data cabinet level) including a UPS, a FM200 fire suppression system, down draft air-conditioning and a raised floor.

Andrew Evans, Head of IS, commented, "Having taken over the project from a colleague, the amount of detail within the specification and proposal made it straightforward for me to pick up the project and run with it. The work involved the relocation of all our server and data cabling racks, this was carried out in a faultless manner. The overall quality of the completed project was extremely high."



Raised floors

- 'Hot isle cold isle' solutions
- Access flooring for computer rooms
- Flexibility, easy and convenient maintenance and installation of data cabling
- Effective air circulation – down draft



Security

- Access control systems
- Able to work with or replace existing RFID readers that use Wiegand Protocol
- Battery back up for event memory
- Anti-Tamper Facility
- Aluminum casing for durability
- Cover lid offers extra protection for scanner
- Flexible communication options including Wiegand I/O, Ethernet, and RS232/422
- Can be used as standalone or in a network



Shut down systems

Enable a graceful shutdown in the event of power loss or fire

- Automatic, controlled and logical server room shut down with power isolation
- Stops air circulation: reduced smoke damage to equipment
- Protect data and back-up data on or off site
- Prevent loss of equipment



Medusa II patching rack



- High-density patching
- Expandable with simple patch cord traceability
- Unique Gravity Chamber™ tidies up excess patch cable



Intelligent patching



- SMARTPatch™ system automates network troubleshooting, maintenance and documentation procedures
- Unprecedented real-time visibility of all link connections
- Any network can benefit from SMARTPatch™ if it implements cross-connect topology
- Full CAD-based documentation



Aspect Capital

A network and communications refurbishment for Aspect Capital, one of Europe's largest hedge fund management businesses (in terms of assets under management).

Completed on time – without any unscheduled outages – the project incorporated, amongst others, electrical power design, fire suppression, air conditioning, server racking, raised flooring solutions, intelligent data cabling infrastructure (utilising over 300 miles of cable), a 275kVA generator with a Comms Room Services Saturn E33 uninterruptible power supply, and a Comms Room Services shut-down system.

After a full evaluation of the alternatives, Aspect Capital selected Comms Room Services to design, manage and implement the entire solution and, alongside workplace design specialists Morgan Lovell, were contracted to complete the refurbishment of the company's London offices in Wigmore Street. The project presented a number of specific challenges, in particular the server room expansion, which took twelve months from design to implementation.

As Aspect Capital trades on a 24-hour basis – from Sunday evening through to Friday evening – the existing server room environment had to remain live while the expansion project was in progress. This necessitated the utilisation of some of the most sophisticated technology and techniques available.

The scope of the project covered multiple areas including server room and dealing room design as well as the installation of a generator and the construction of a new off-site disaster recovery data centre. To ensure optimum operational efficiency, the project also utilised a range of advanced solutions including a Saturn E33 UPS, Medusa II patching cabinets and SMARTPatch™ intelligent infrastructure management system. Now completed, the solution has proved a resounding success.

Indeed, according to Mike Robinson, Aspect Capital's IT infrastructure manager: "Comms Room Services has delivered exactly what it promised, a highly efficient solution, performing to our precise specifications."

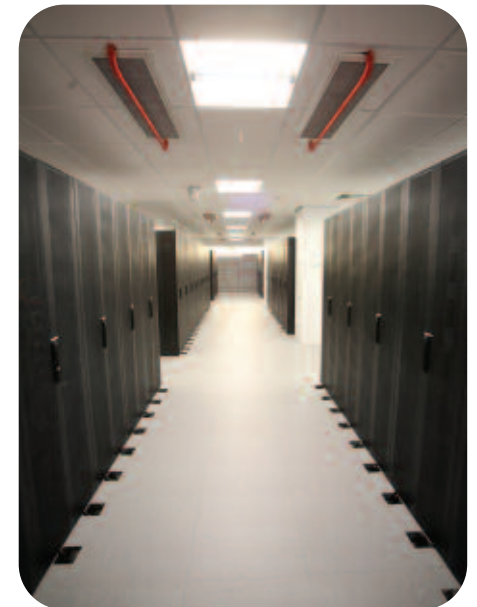
The University of Nottingham

The University of Nottingham required a technical design for their new central server room which needed to consider the existing very high ceiling height, risk of flooding from the plant room above, together with general security.

The University decided to use the Comms Room Services 6-stage consultancy package; to explore all the options and to be able to establish a budget for the project. Comms Room Services proposed the Modusec modular room solution as it met many of the University's requirements; a 5 sided room provided a ceiling and a solution which was water tight. The ceiling void created a suitable space for the air conditioning plant while the steel composition of the modular panel solution provided the security which the University were looking for.

The detailed design package also considered fire suppression, UPS, power and generator, air-conditioning, raised floor, an AV system for the control room and an advanced KVM solution enabling remote access to servers from any desk location.

Richard Smeeton, Head of Network & Systems Section, said: "Our strategy was to provide an environment to support the operational needs and business continuity requirements of The University of Nottingham, and the institutions served by the East Midlands Metropolitan Area Network. Comms Room Services' expertise has enabled us to build a world class data centre that provides a sustainable environment for hosting our next generation systems, enterprise storage and high speed networks required to underpin the University's teaching, research and business activities, and the connectivity requirements of the East Midlands region."



CMA-CGM

The world's 3rd biggest privately owned shipping company. A complete design and build of a new data centre for their new UK corporate building, located adjacent to the River Mersey.

The solution comprised of a fire rated and gas sealed room, a shut down system in the event of a fire – to protect the equipment – a water detection system, an early warning fire detection system, a gas extraction system to vent the room in the event of fire suppressant being released, a complete power installation and distribution system (down to data cabinet level) including a UPS, an Argonite fire suppression system, down draft air-conditioning, a raised floor and a cabling infrastructure throughout the building linking to a Medusa II patching frame.



Jonathan Mason, Group IT Manager, remarked, “We were very impressed with the design service offered by Comms Room Services. It covered every aspect to the build and took into account detail that we had not previously considered. The build was carried out and project managed in a seamless manner and as a result required little input from ourselves. The finished solution exactly fitted our requirements, we are extremely pleased with the high quality of the finish.”



NetJets

NetJets, the leading provider of private jet travel, required a complete server room design and build at its new UK offices, located on a greenfield site.

Completed in just 8 weeks – ahead of a full office refurbishment – the solution incorporated features such as air-conditioning, UPS, power linkup to the onsite generator, gas fire suppression system, environmental monitoring and an emergency shut down system. Each element of the design and build was specifically designed to ensure optimum operational efficiency, meeting every aspect of NetJets’ requirements.

According to NetJets’ CIO, Terry Nitschke, “Maximum up-time, security and the optimum efficiency of our IT network are critical to our operation, so it was vital we made the right choice when selecting a company to design and build our UK server room. We are delighted with every aspect of Comms Room Services’ solution – it has delivered immediate performance benefits for our UK operations, as well as provided an optimised platform for our future network development and is geared to the long-term requirements of our European business.”



Slough Borough Council

Comms Room Services provided consultancy for a communications room re-design at Slough Borough Council’s head office. The project was completed on time, within an extremely strict timescale, and without any unscheduled outages.

Slough Borough Council required a complete server room re-design incorporating – among others – data cabling infrastructure, air-conditioning, raised flooring, a Medusa II patching rack, data racking and a gas extraction system. As the general public have online access to the Council’s services, including facilities such as online bill payment, the cut over from the old room to the new room had to be completed in very quick time, staged over three weekends, overnight, and ensure any outages were planned and extremely limited.

Chris Wintermute – Acting Technical Infrastructure Manager. IS&T Services said: “With extremely high levels of support and accessibility, Comms Room Services clearly established how our server room re-design could deliver maximum up-time and optimum performance.”

