

## Stage 2 - Server Cabinets in Final Position

The Server Room now has all the cabinets situated in their final positions.

Total of 17 Server Cabinets are available, 8 of these are already filled with existing Servers.

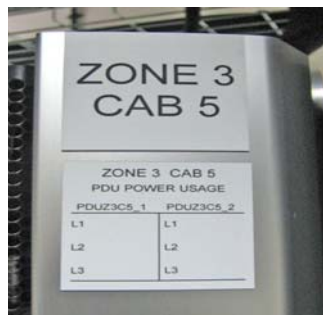
The remainder are ready waiting, with appropriate services, for future Server application installations.



Rear Access to Server Cabinets

Each cabinet has been strategically placed to maximise the amount of room around the cabinets for efficient air flow and maintenance access.

Each cabinet is identified as is the power consumption from each of the distribution phases. It is important that power usages of the servers are monitored closely to ensure that there is always adequate failover power supplied by the UPS system.



Cabinet Labels

The new UPS room has been completed with 3 UPS units working together. Each unit shares the load ensuring adequate power redundancy for the Servers.



New UPS Room



All 17 Server Cabinets in Position

## Environmental & Safety Control Systems



Environmental & Safety Controls

Special environmental management facility has been installed in the Server Room to ensure appropriate air conditioning, fire alarm and fire suppression control systems. Air conditioning controls the temperature in the Server room to 23°C ± 2°C and has built in alarm features.

There are 2 Fire Safety systems: Vesda Smoke detection

System and FM200 Fire Suppression System.

The smoke detectors are strategically placed under the floor and overhead on the ceiling. The system is being used as



Vesda Smoke Detection Controls

an early warning detection device; any sign of smoke will trigger the early warning device which will be highlighted on the business management control panel.

If this persists then the next stage will trigger the fire alarm.

The FM200 fire suppression system is an inert gas system that will extinguish a fire.



FM200 Gas Controls

The building management control system is monitored and managed by our estates team and gives us monitoring and detection facility.

### Special points of interest:

- **PLANNED COMPLETION DATES**  
STAGE 1: COMPLETE  
STAGE 2: ORIGINALLY 29TH MAY BUT THIS WILL HAVE TO BE DELAYED DUE TO STRUCTURED CABLE INSTALLATION FAILING TEST - PROJECTED COMPLETION DATE IS NOW 26TH JUNE.
- **RADIOLOGY PACS**  
INSTALLATION CONFIRMED 27TH MAY

### Ordering and Delivery Status

- CCTV CAMERA SECURITY SYSTEM

### Technical Issues

- **10GB STRUCTURED CABLING**  
STRUCTURED CABLING INSTALLATION FOR STAGE 2 HAS FAILED ITS INTEGRITY TEST. THIS CABLE HAS TO HAVE STRINGENT ELECTRICAL PROPERTIES TO MEET 10GB CONNECTION SPEEDS.  
THE CABLE HAS FOUND TO HAVE A CAPACITANCE IMBALANCE EITHER DUE TO TOO THIN AN INSULATION OR TOO THICK A COPPER CORE ON ONE OF THE CABLE STRANDS. THIS HAS AFFECTED ALL CABINETS THAT WERE CABLED IN STAGE 2. BRANDREX WHO SUPPLY THE SPECIAL 10GB CABLE HAVE CONFIRMED THAT IT IS A MANUFACTURING FAULT AND ARE REPLACING AND INSTALLING THE NEW CABLE FREE OF CHARGE.  
• THIS WILL DELAY THE PROJECT COMPLETION BY 2 WEEKS

### Server Shutdown Status

Planned Shutdown for Final Completion

### OPTIMISATION OF STORAGE DEVICE SYSTEMS

- EMAIL, DOCUMENTS & SHARED DRIVES  
- SATURDAY 30TH MAY
- RADIOLOGY RIS