

Cheshire Data centre

Capitoline LLP (www.capitoline.eu) has handed over the Cheshire Data centre to the client, Cheshire West and Chester Council.

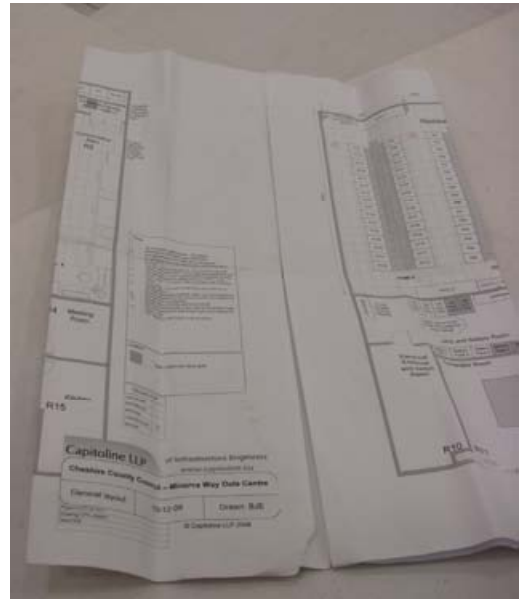
This modern data centre features a 400 m² computer hall within a dedicated and purpose built 860 m² building on a secure 1700 m² plot.

The data centre can host over 130 server and communications racks and offers N+1 redundancy throughout such as two separate telecommunications entrance rooms, and N+1 UPS and a 750 kVA diesel standby generator. The computer room and other principal areas are protected by an aspirating smoke detection system linked to an ozone-friendly inert gas fire suppression system.

One outstanding feature of the new data centre is a cost effective air economiser system that uses outside air, when it falls below 20⁰ C to subsidise a standard DX air conditioning system. The air economiser, designed by Capitoline and controlled by a sophisticated Building Management System, BMS, is expected to reduce electricity consumption on HVAC requirements by 35% over a year. This was just one of a range of green features incorporated by Capitoline into the design to give the new data centre one of the best Power Usage Effectiveness (PUE) figures in the industry.

Capitoline was the performance and design consultant for the Council, interpreting an IT requirement into a physical N+1 design with an expected ten-year life span. Capitoline worked with the Client, the Client's architect and the various specialist fit-out companies to ensure the success of the project.





Above: Construction of the air economiser
Top right: Capitoline plans for cable layout
Right: The new building
Below: The main computer hall

