

Client: Global Payment Processing Company

Location: Surry

Sector: Data Centre

Project value: £2,500,000

Project: Data Centre Fit Out Design and Build



## Brief

JCA were asked to complete the design and construction of an internal fit out of a tier III + data centre for a global payment processing company, as defined by the Uptime Institute of America's tier classification and performance standard (UTI), supported by TIA 942.

## Action

The internal design was to provide a full data centre internal fit out to cover 1000m<sup>2</sup> of floor space. Separate zones were provided within the data hall with full cold aisle containment. Power supplies were deployed at high level from eight power distribution units (PDU's) which were installed into two dedicated rooms. Each PDU comprised of 4 No. 630A sub panels, each supplied via a static transfer switch. Each sub panel comprises 3 No. 250A, 24 Way TP & N distribution boards. Structured cabling (OM4 fibre and Cat6 copper) installation was also from high level, having complete separation from the power deployment and diverse A&B routing.

The internal design and fit out included fire alarm/suppression systems, environmental (temperature/humidity) monitoring, security system and a power management system.

## The outcome

The project was finished to tight timescales and was completed under budget with all the client's expectations being met. The successful completion of this data hall has lead onto further projects for this blue chip client.