

Protecting Britain's busiest railway station



Clapham Junction is Britain's busiest railway station with more than two thousand five hundred trains, an average of one every twenty seconds, passing through each day. Over two thousand passengers ride through the station every minute during the morning and evening peak periods. As part of a national development project, it was identified as being a key site where upgrading the level of power protection would reduce the incidence of signalling faults and the resulting delays.

This project aims to improve the quality of the power supply and eliminate the supply blips caused when switching between the railway derived supply network and the regional electricity supplier. This was to be achieved using commercially available UPS technology instead of the bespoke systems traditionally used across the railway network.

Working in partnership with Railtrack, On Group has developed an innovative solution including an APC DP series, which has already proved suitably robust for rail applications. Also included is all the other necessary equipment needed to ensure the integrity and reliability of signalling supply points such as an REB (relocatable equipment building), battery, switchgear, transformers, air conditioning and remote monitoring. This provides a low risk, fully functional Plug & Play solution.

According to Project Manager, Keith Watson of Railtrack: The implementation process went smoothly and the new UPS switched on without any hitches showing the value of the pre-testing and planning carried out in advance. The ease with which it can be implemented into the rail infrastructure is testament to the depth of experience that On Group has of both the UPS market and the needs of the rail network. This has enabled the development of a highly engineered solution using standard, proven technologies that are best of breed in their class.

Before the system was handed over to the main subcontractor, On Group trained local signalling technicians in the operation of the system. This included the daily checks, switching to maintenance bypass and ensuring that signallers understood the warning alarms on the remote panel located at the Clapham Area Signalling Centre.

In the first month after implementation, four main interruptions, which would previously have affected the network, were registered.

Each of these events would have required engineers to reset the signalling system and caused serious delays to passengers. As a direct result of this successful installation, Railtrack Southern is already looking at further sites within the inner London area for the adoption of this protected power solution.

For over 25 years, on365 has been driving down costs, improving power and cooling efficiencies and managing risk as a specialist in the design, planning, installation, maintenance and optimisation of critical physical IT infrastructure and utility services. Whether it's a small server room or a complete datacentre build we have the necessary expertise to meet the IT power and cooling challenge, delivering support at the very foundation of your IT technology.

Recognised as the UK's most successful provider of the implementation and operation of the complete Network Critical Physical Infrastructure (NCPI) for major business, on365 has the highest levels of knowledge and competence, understanding both the technical and practical issues involved for your business, your people and your IT infrastructure requirements. With the need to deliver on the promise of investment made in IT now even more critical, on365 is totally focussed on enabling organisations to get the best out of their IT environment.

on365 has an extensive and comprehensive product and service portfolio.

- APC Elite Partner
- SGI Trusted Advisor
- Kelway Premier Partner
- Uniflair Approved Partner
- Chatsworth Products European Certified Installer Partner

Our support capabilities encompass installation, system testing, network integration, on-site maintenance and audit/review services. Most importantly though, we understand the real needs of IT Managers and provide sound, practical advice to help proactively and efficiently manage across the datacentre physical infrastructure through to chosen IT hardware.