The Guru Nanak Sikh Academy is a mixed Sikh all-through Multi Academy Trust and sixth form in outer London. One of the Academy's aims is to provide a safe and secure learning environment which allows students to continually develop and to share their knowledge and skills with the local and global community. To achieve this aim, the Academy required modern integrated CCTV and Access Control systems and they chose Prime Digital to deliver this system.

The existing CCTV system consisted of approximately 100 good quality internal analog cameras but many were faulty and the recording solution had never been successfully commissioned. In addition to the 100 existing camera positions, said Aftab Ahmed (Director of Business and Operations), he had identified a further 100 camera positions which also required CCTV coverage.

The existing Access Control system consisted of a mix of 20 Paxton NET2 and NET2+ controlled doors and barriers. Aftab identified that this number of Paxton controllers needed to be more than doubled and unified onto one IP based system that could be integrated seamlessly with the CCTV cameras to provide comprehensive and flexible site security management on a 24/7 basis no matter what the site was being used for.

To establish a CCTV starting point, Prime's Project Director, Brent Hills, ordered a full audit of all the existing analog cameras and most were repaired with simple power supply replacements or re-terminating existing cables. Once all the analog cameras were fixed, they were connected to 16 channel video encoders and connected on to the Academy network so they could be connected directly to the final IP CCTV servers.

Because the ultimate number of cameras could grow to 300 HD cameras, Prime supplied three unlimited camera Luxriot VMS servers with a total of 160 Terabytes of storage. These IP video management servers provided an economic solution with redundancy and scope for growth without further investment. Prime has installed over 100 similar Luxriot servers in schools in the UK in the last 10 years and most are still in service and looked after remotely by Prime.

Having got the existing CCTV system operational with its analog cameras working, Brent then organised the installation of nearly 100 new two & four Megapixel IP cameras to meet the additional CCTV coverage requirements. These additional cameras were then added to the same server infrastructure as the existing cameras were already working on.

While the CCTV system was being developed, the Paxton NET2 access control system was unified into a fully IP system with over 40 door/gate/barrier control points. The NET2 system was integrated with the Luxriot system to allow any mix of cameras to be used to cover any mix of access control points.

Aftab said that he was always expecting a technical challenge, especially with the CCTV upgrading and he found that Brent and the team from Prime worked tirelessly and professionally to deliver an Integrated CCTV and Access Control system which will meet the Academies aim to provide a safe and secure learning environment for many years to come even with the increasing security challenges facing the education sector.

www.AdvancedCCTV.co.uk   http://www.gurunanaksikhacademy.co.uk/