

Industrial Production Plant IT Infrastructure Transformation.



Industrial scale IT

The Project

A large-scale industrial production plant in Dubai required a complete enterprise-grade IT infrastructure fit-out across an estimated 127,000+ sq/ft facility. The objective was to deploy a high-speed, low-latency network environment using premium Cat6, Cat6a and fibre optic backbone connectivity to support production operations, CCTV surveillance, control rooms and international vendor connectivity.

The Scope

Design and implement a robust structured cabling solution across the entire production facility using enterprise-grade components to minimise latency and packet loss.

Case study

Deploy fibre optic backbone uplinks connecting:

- 3 Production Supervisor Control Rooms
- 1 Central Security & CCTV Command Room

- Provide secure, high-speed connectivity for production machinery vendors in Germany to support remote monitoring and technical support.
- Implement cable management and installation standards compliant with UAE industrial health & safety regulations.
- Deploy a high-speed enterprise WiFi network with indoor and outdoor long-range wireless coverage across the factory floor.

The Brands Used



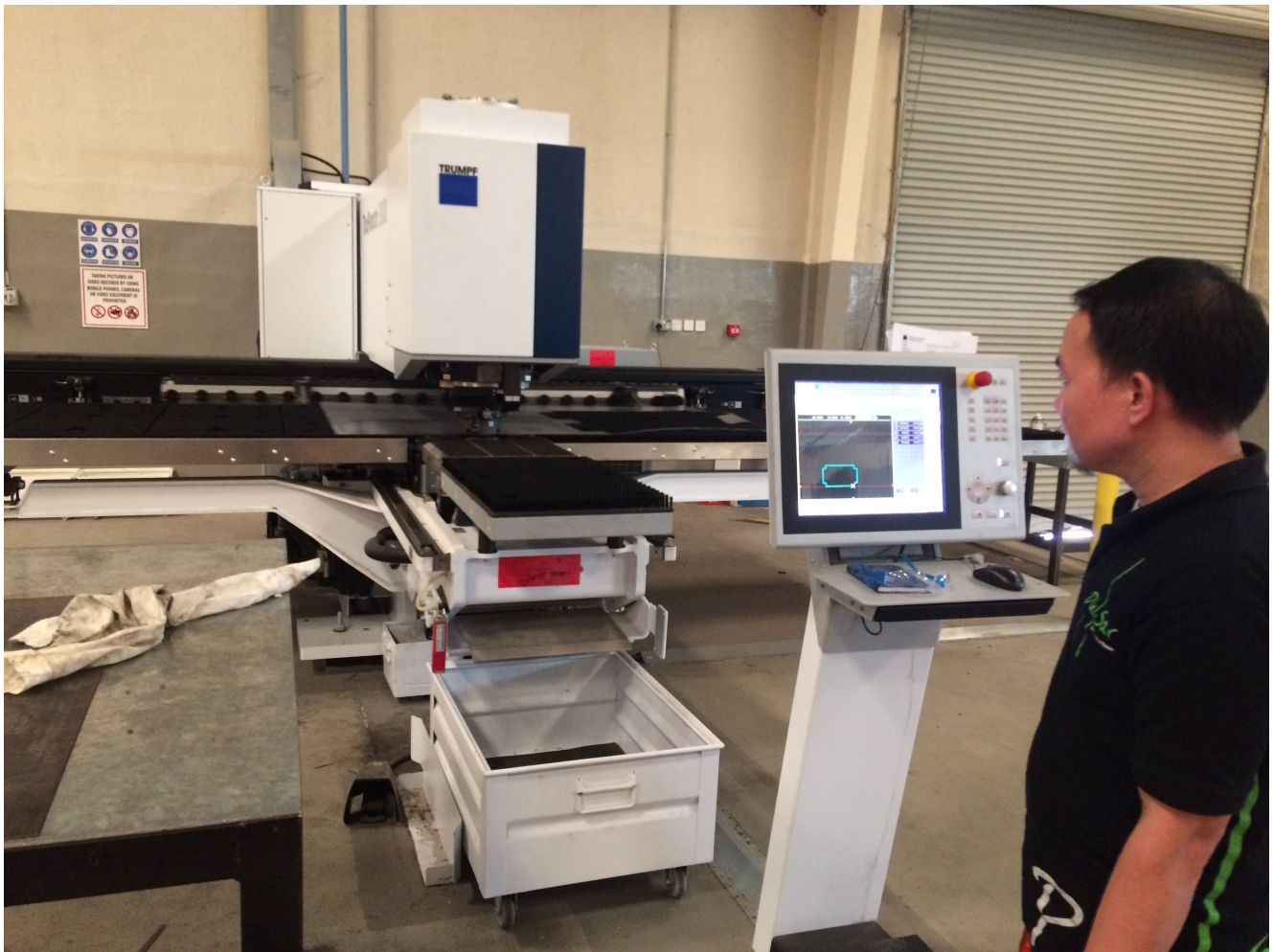
- Schneider Electric Cat6 cabling infrastructure
- Schneider Electric sockets, jacks and accessories
- Belden fibre optic cabling and accessories
- Netgear enterprise managed switches
- Cisco SFP modules
- EnGenius enterprise WiFi access points

Operational office in total 200 users

Case study

The Challenges

- Managing a team of 15 ELV and cabling technicians across a large industrial environment.
- Coordinating with 7 different client-appointed contractors simultaneously.
- Delivering infrastructure across a vast operational production facility while maintaining project quality standards.
- Ensuring the project remained on schedule, within budget and aligned with operational deadlines.



Integrated networked manufacturing machines

Overcoming The Challenges

- Strong teamwork, communication and operational coordination.
- Regular stakeholder engagement and project status updates.
- Conducting scheduled site meetings with contractors, suppliers and engineering teams.
- Maintaining contingency planning and operational flexibility to overcome project deviations and unexpected obstacles.
- Building a motivated project culture through team engagement and collaboration - "Win as a team, lose as a team."

Case study

The Conclusion



- Successfully deployed and implemented over 600+ Cat6 network data points across the facility.
- Delivered multiple fibre optic backbone uplinks between departmental and operational segments throughout the factory floor.
- Implemented a high-speed enterprise WiFi solution using indoor and outdoor long-range access points to ensure complete site coverage.
- Achieved reliable Gigabit LAN connectivity across production systems, surveillance infrastructure and operational devices.
- Delivered the project successfully with enterprise-grade performance, scalability and reliability for long-term industrial operations.

Case study

The Client

Names : Pulsar BTL

Sector : Production manufacturing

Address:

Dubai Investment Park 1

Dubai, United Arab Emirates

Project completion Date

The month of September 2016

For more information & contact details

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