



From PROFINET to Big Data: the logistical evolution

How innovative network solutions make intra-logistics more efficient and effective

Project description

An approximately 70,000 m², 40-metre high, fully automated high-bay warehouse, which is being built at one of Europe's major aviation hubs, presents the client with the challenge of establishing a high-performance OT network that supports the company's digitalization and big data goals and can support future specifications resulting from the corporate strategy.

The network technology is to be designed digital-ready. The changeover from homogeneous PROFINET fieldbuses to a system that enables increases in efficiency and effectiveness as well as the predictive prevention of system failures requires careful planning and coordination. Pain points include the integration of technologies, ensuring data integrity and availability and adapting to future requirements while minimizing operational disruptions.



Customer

Airline company
> 4.0 € Mrd. turnover
> 4,000 employees



Industry

Logistics hub, high-bay warehouse on 70,000 m²



Period

Start of construction
February 2023,
completion expected by
early 2027



Goal

Establishment of a secure, future-ready OT network

Challenge and solution from Indu-Sol

Indu-Sol acts as a key partner for plant operators and machine manufacturers in order to mediate different interests. Convincing the plant manufacturer's project managers and service departments of the network planning approach was crucial. Through a resource-saving design, cost savings of up to 50% and a 10-fold increase in network performance were achieved, saving over €700,000 through planning alone. The integration of Indu-Sol PROmesh Industrial Ethernet switches into the CISCO IT infrastructure ensures connectivity in accordance with IEC 62443. Indu-Sol also provides support during commissioning and network acceptance. Indu-Sol offers a comprehensive value proposition that includes network consulting, planning and infrastructure.

Our value proposition

- Network consulting and planning
- Network infrastructure with 60 PROmesh P switches
- Network acceptance and documentation
- 11 Profinet INspector and PROmanage NT software for maintenance and condition monitoring management
- Integration of PROmesh P switches

This value proposition not only guarantees high-performance machine networking, but also access to smart sensor data in accordance with the latest OT security standards.

Benefits for the client

- Comprehensive digitalization-capable OT network „future ready“
- Savings on installation costs (fiber optic cabling)
- Savings on numerous Profinet/Profinet couplers
- Predictive maintenance to prevent unplanned system downtimes
- Noticeable optimization of the OEE

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