SECURING AMMONIA PRODUCTION PLANT | Case Study

Background

A world leading enterprise a leader in the production fertiliser, producing ammonia. The company operates in several regions, and their product is widely used in the agriculture industry. The company wanted to ensure that their ammonia production plant is secure from being attacked via the cloud.
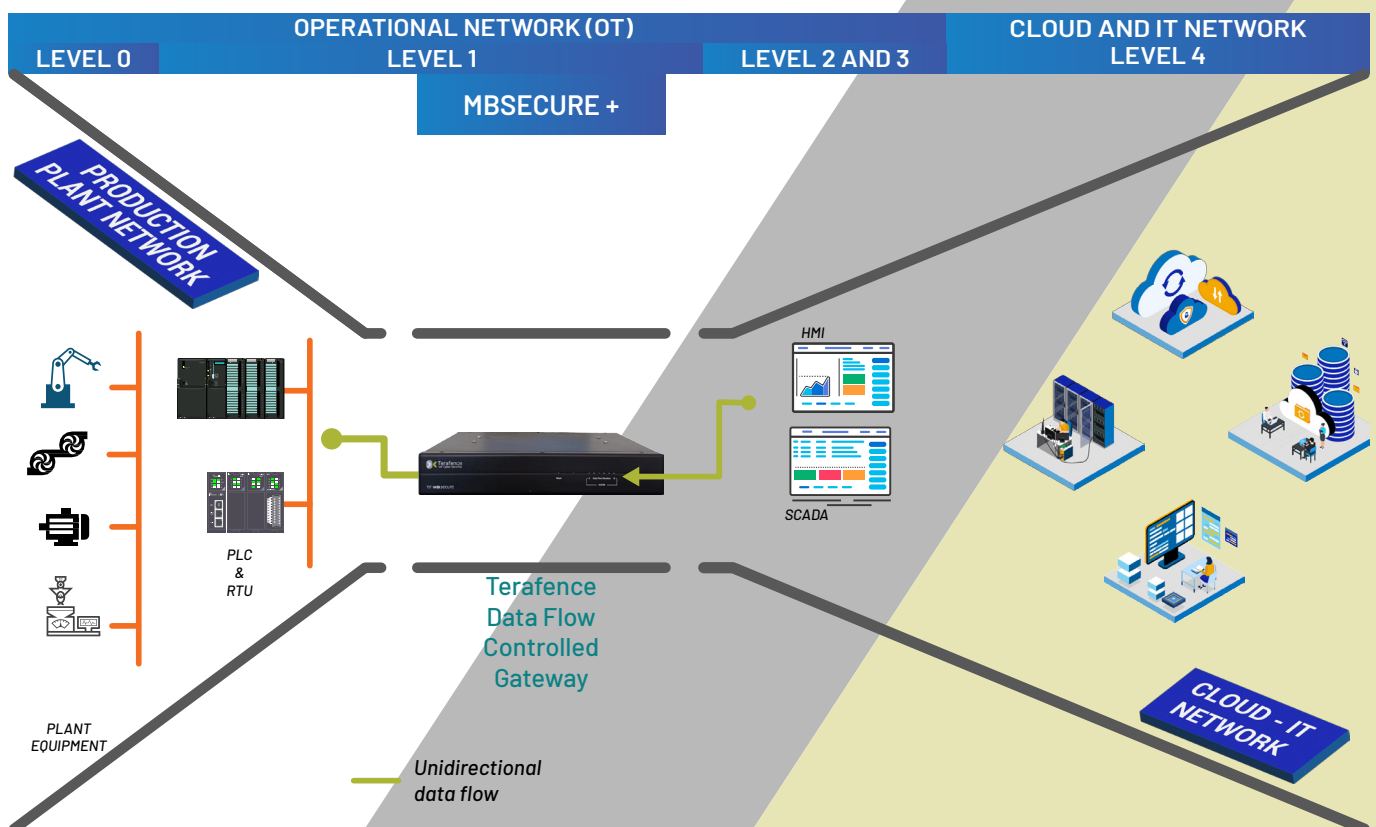
Objectives

The installation objectives for this project were to securely transmit production plant data to their cloud provider for remote monitoring and doing predictive maintenance analytics. The installation required minimal topological changes and no downtime on the customer's operations was a key requirement. The installation had to be quick, seamless, and have a small footprint.

Installation Results

The installation was successful, with the data transmitted securely from the source to the target. The installation time was within one day, and no customer changes were needed. The system was operational, and the customer was satisfied with the results. Terafence specialists showed an impressive level of professionalism in understanding the task and technical specifications of the request, fulfilling the order in the shortest possible time and a competitive price, completing the installation up to the operative condition of the on-line data transfer within one working day, and flexibly modifying the hardware and software based on the updated requirements.

Installation Topology

OPERATIONAL NETWORK (OT)
CLOUD AND IT NETWORK
LEVEL 0
LEVEL 1
LEVEL 2 AND 3
LEVEL 4
MBSECURE +
PRODUCTION PLANT NETWORK
HMI
SCADA
PLC & RTU
Terafence Data Flow Controlled Gateway
PLANT EQUIPMENT
CLOUD - IT NETWORK
Unidirectional data flow

Conclusion

The successful installation of the secure data transfer system by Terafence for this world leading enterprise highlights the importance of cybersecurity in the manufacturing sector. The secure transmission of production data to the central control is important to ensure that the client stays compliant with regulations. Terafence's cybersecurity gateway proved to be a reliable solution for secure data transfer with minimal topological changes and a small footprint.

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TERAFENCE COMPRISES OF
PROFESSIONALS THAT MAKE IoT & NoT
SECURE FROM MALICIOUS ATTACKS

Terafence Ltd. specialises in the development of advanced firmware/microchip solution for cyber security connectivity and additional mechanical waves based solution to control medical implants and wearable devices. Established in 2015, Their patent pending TFence™ technology uniquely offers total protection from tampering or hacking IoT devices by completely blocking data entry – while maintaining data outflow and control. And relevant patent describing secure way to control implants and wearable based on ultra sound waves. Their pioneering company comprises seasoned professionals sharing a common goal – to make IoT and NoT safe and secure from malicious attacks.

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