

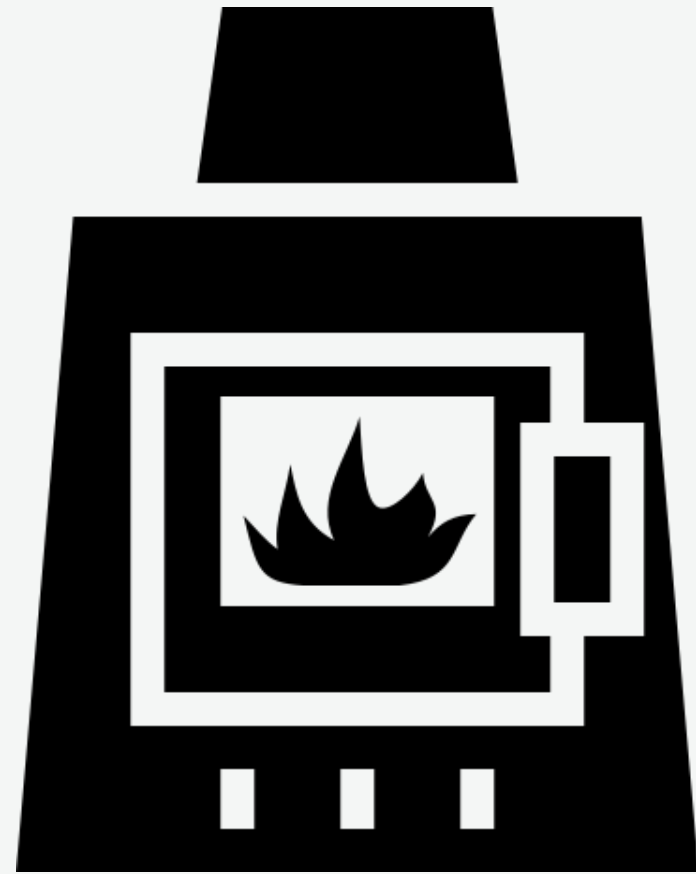
CASE

STEEL FURNACE

NETWORK CONVERSION

Steel Sector

MAIN BENEFIT OBTAINED



Stable network communication achieved, reducing furnace operational downtime and energy consumption for reheating it.

NEEDS & CHALLENGES

PROBLEM

The original automation architecture had unstable communication between the master PLC and four slave PLC's, which caused many furnace stoppages and disturbances on data monitored by intelligent systems.

CHALLENGES

Urgent need, due to the production loss caused by the stoppages.
Conversion to new communication protocol, minimizing process downtime.

A close-up photograph of a hand placing a puzzle piece into a larger structure of puzzle pieces. The scene is dimly lit, with a soft light source from the right creating a glow. The puzzle pieces are light-colored, and the hand is positioned on the right side of the frame, reaching towards the center. The background is out of focus, showing a desk and some papers.

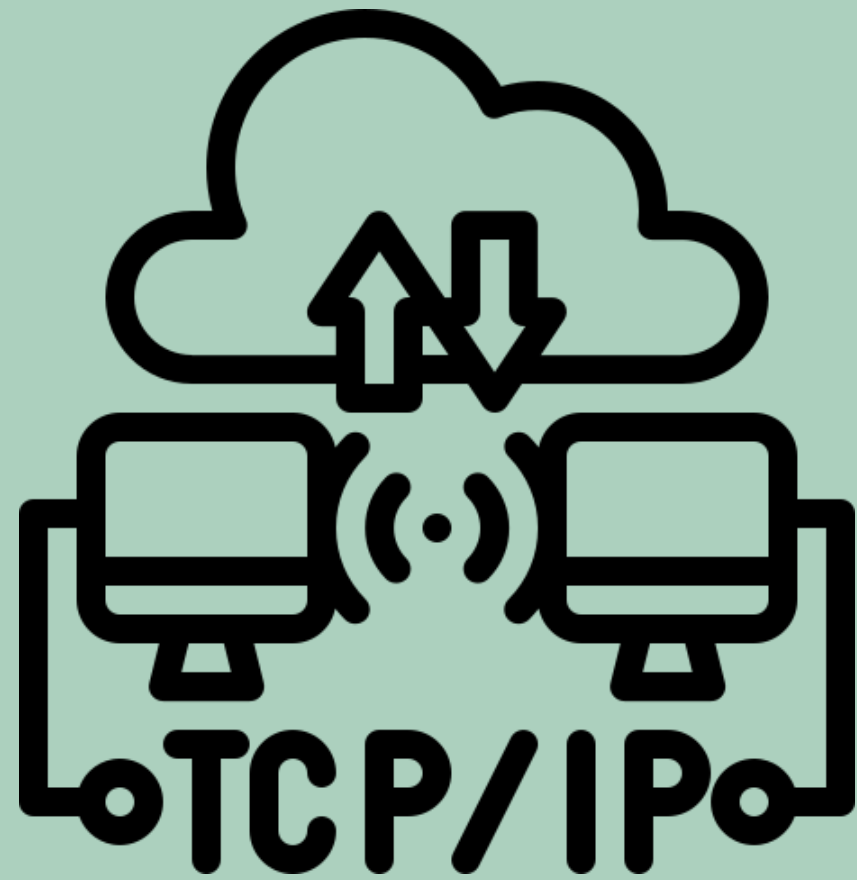
SOLUTIONS DELIVERED

Conversion of MODBUS communication protocol to PROFINET

Replacement of slave PLC's to remote I/O's

Installation and data integration of new sensors

Programming of new functions on PLC and HMI





DELIVERABLES

PLC AND HMI PROGRAMS, TESTED AND
COMMISSIONED

SOFTWARE DOCUMENTATION

Technologies & brands

- SoftPLC Phoenix Contact emulated on an industrial computer.

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Please contact us to receive other cases that may be applied to your challenge.

DRIVEN BY CHALLENGES.

WHAT'S YOURS?

