Delivering solution to overcome challenges in cybersecurity and digitalization for Promsort holding
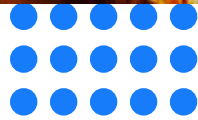
About company

Promsort is one of the largest producers of long products and metalware, comprising four plants: Promsort-Ural, Promsort-Tula, Promsort-Kaluga и Promsort-Metiz. The company produces up to 5 million tons of steel and rolled products annually. The product portfolio includes rebar in bars and coils, wire rod, metalware, structural shapes, and rolled products made from ordinary and high-quality steel grades.

*Images are provided for illustrative purposes only.
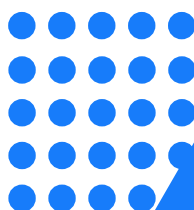
Challenges

The management of Promsort holding required a solution to complete the following challenges:

- reliably isolate the production segment from other data transmission networks of the enterprise
- ensure the security and continuity of operations in the converter shop
- monitor the condition of equipment and the technological process in alike «real-time» mode
- make quick, optimal operation and business decisions based on the data collected from the equipment

Solution

The Kaspersky IoT Secure Gateway (KISG) was successfully implemented in production at Promsort-Tula and achieved the assigned challenges.

1 KISG ensures the isolation of industrial equipment (converters) from external data transmission networks

2 The gateway provides continuous collection and transmission of reliable industrial data according to the OPC UA standard to the parameter control system (HMI)

3 The Cyber Immunity properties of KISG and its built-in IoT infrastructure protection tools ensure reliable protection of critical industrial systems from external cyber threats
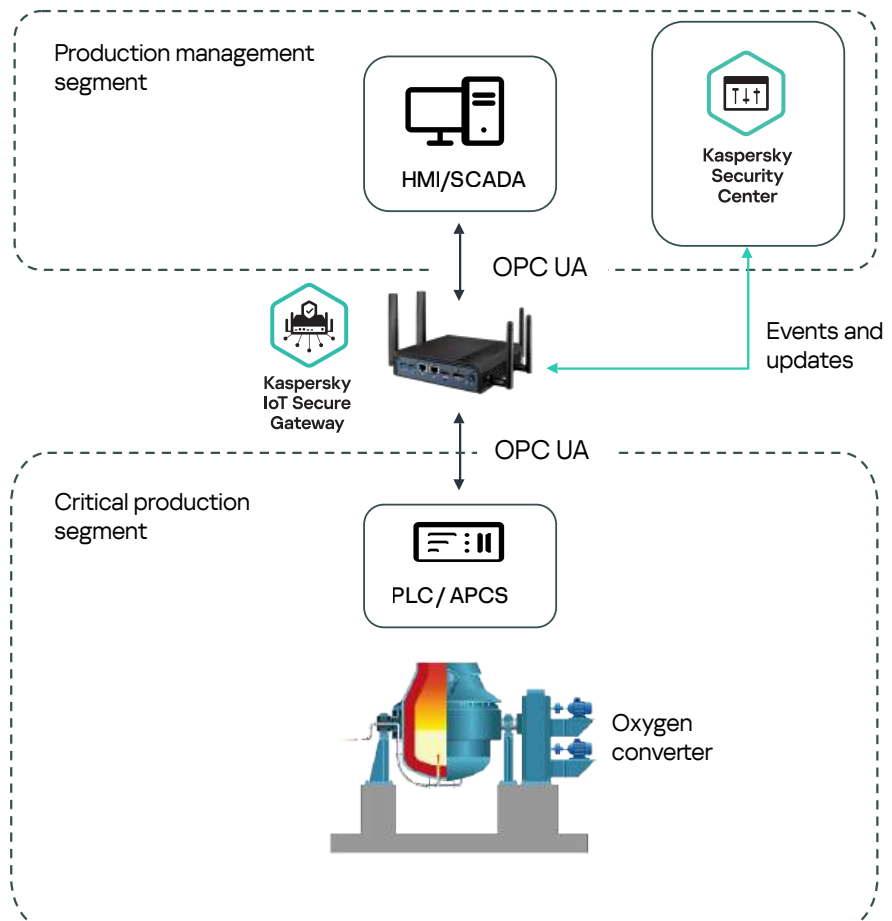
Results

Increased productivity of the converter shop based on timely and comprehensive industrial data

Ease of equipment connectivity and reduction of cybersecurity costs

Stable and secure operation of critical technological equipment

Production management segment

HMI/SCADA

Kaspersky Security Center

OPC UA

Kaspersky IoT Secure Gateway

Events and updates

OPC UA

Critical production segment

PLC / APCS

Oxygen converter

*Reference architecture.

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