Kaspersky IoT company

KasperskyOS Operating system

Kaspersky IoT Secure Gateway

Cyber Immune gateways for connecting PETROCHEMICAL EQUIPMENT to clouds and business systems

Scenario №1

Gateway as a software data diode with functionality of industrial protocols converting (one-way data transmission)

- **Safe and secure transport** of previously unavailable data for business

- **Trusted data received from the gateway** help to build digital analytics and equipment operation forecasting services

- **Operation monitoring** of drilling rigs, pump plant to optimize weight and foresee equipment breakdowns

- **Equipment monitoring** of the accumulation well clusters and oil storage infrastructure

- **Connection and monitoring** of equipment on remote technological sites, of energy-supply for oil exploration, production and transferring

- **Collection and transmission** of parameters to digitalize an oil terminal

Gateway as a firewall with data routing functionality (two-way data transmission)

- **Sending security events** via the Syslog protocol

- **Safe and secure two-way data transport** of previously unavailable data for business

- **Signature-based intrusion and anomaly detection** to provide protection from external threats

- **Cyberprotection of industrial equipment,** DCS, APCS and SCADA systems from cyberattacks when connected to IT-systems and during data collection

- **Data collection and transmission (CME)** received from pumps and well cluster/oil field equipment, to optimize energy consumption and foresee equipment breakdowns, data transmission to demilitarized zone

- **Protection and comprehensive data collection** from processing equipment to create a digital twin of a technological process and an optimal control of a system

- **Local storage** of collected data (buffering), emergency data buffer

- **Secure data collection and transmission** from industrial equipment to DCS

Additional notes:

- **Creation of ecosystem using Kaspersky Lab products such as KISG+KUMA+KSRW+KICS+KSC to provide an end-to-end protection of a production line**

- **Centralized management of Kaspersky Lab products via Kaspersky Security Center**