# Network Performance Monitoring in Critical Infrastructure

EG.D is one of the main critical infrastructure operators in the Czech Republic running an extensive data network for power distribution control that spans a third of the country. "The operational condition of our network has a direct impact on more than a million households and businesses in our territory," says Martin Keprt, Head of Cyber and Physical Security Management. "Any potential mismanagement in power delivery could cause incalculable damage."

In order to address these risks, the customer needed to improve visibility into the OT network and LANs at substations. It was therefore important that the monitoring solution would support the IEC 61850 and IEC 608-70-5-104 protocols used in OT networks and possess the ability to forward IPFIX data into a SIEM.

The solution

EG.D deployed a Kemp Flowmon solution that comprises around 90 Kemp Flowmon Probes gathering data at key points throughout the network, while existing routers provide additional network traffic statistics. All the data is then stored and analyzed at a central virtual Kemp Flowmon Collector.

"Immediately after deployment, the system helped us identify several misconfigured devices. Thanks to the insights the solution provides, we can see all of our traffic in one place and are immediately warned about any emergent or potential issues that may arise. It provides us with information on network usage, pinpoints potential bottlenecks, exposes network-borne threats, and reports on a variety of network traffic anomalies," says Keprt.
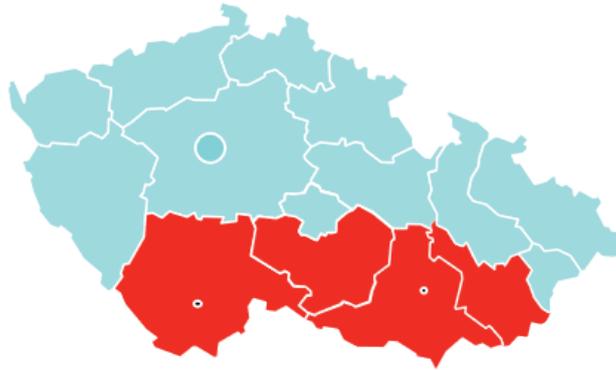
Outcome

With the system in place, EG.D benefits from pure, unambiguous insight into their entire power distribution control network, ensuring transparency and awareness of potential problems.

"With the Kemp Flowmon solution we can be certain that no issue goes unnoticed, giving us time to step in and remediate," says Keprt. "The insights we get enable us to adopt a proactive approach to operational network management and thus ensure unwavering service delivery to all our customers."

Martin Keprt

Head of Cyber and Physical Security Management

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