

Securing Europe's Largest Manufacturing Facility



THE CHALLENGE:

With over tens of thousands of OT & IoT devices that are divided into multiple production floors, Vestel needed a solution that can limit their exposure to potential cyber attacks. Vestel's IT and OT security teams needed more accurate network visibility and controls to improve their production availability, reliability and security. Vestel also needed forensics and incident response capabilities in their OT environments.

THE OUTCOME:

Increased real-time visibility into their complex production environment with ongoing monitoring of exposure to risks and predictive warnings. Vestel's IT and OT teams now have continuous threat detection of malicious and other anomalous activities. This supports their large-scale, OT networks with minimal efforts, costs, and resources, while providing quick and effective incident response capabilities.

Vestel operates the largest manufacturing facility in Europe and produces more than 20 different products in one 1,100,000 m² mega-factory. To ensure its position as a global leader in the consumer electronics manufacturing industry, Vestel constantly adopts new Industry 4.0 technologies that increase productivity and cut production costs.

-  Headquarters
Vestel City, Turkey
-  Sector
Discrete Manufacturing
-  Industry
Appliances and Electronics
-  Production
35 million devices annually

SECURING EUROPE'S LARGEST MANUFACTURING FACILITY

Vestel City operates tens of thousands of OT & IoT devices that are interconnected amongst themselves. The devices are connected to IT systems, and in some cases, are connected directly to the Internet. As an exporter to 155 countries worldwide, and with products that have been rebranded by leading Japanese and American vendors such as Toshiba, Hitachi, Polaroid, JVC, Panasonic, and others, Vestel cannot afford any unnecessary downtime.

Given their constantly scaling OT infrastructure, Vestel's IT and OT security teams realized that a lack of accurate visibility and control tools, could potentially affect the company's production availability, reliability and security.

In response, Vestel's security team searched for a solution that would provide them with the necessary visibility and control over their complex OT environment. The solution they were seeking, needed the ability to support the unique characteristics of their OT equipment and protocols, their large number of devices, and high data traffic volume – without affecting their operational network's performance.



"SCADAfence's performance in large-scale networks and detection capabilities are unlike any other platform in the industry."

Murat Akin, OT Network Engineer, Vestel

FINDING THE RIGHT SOLUTION

After examining a variety of solutions, Vestel determined that the SCADAfence Platform is the best solution for their needs, as it provides them with continuous visibility, risk management and threat detection while supporting their large-scale, highly complex OT networks.

Once the SCADAfence Platform was implemented in the production environment, it immediately discovered all of the devices within the network, all of the protocols that were used, and provided security coverage to the entire facility. The results were digitalizing their entire asset inventory and reducing their risk from attacks on their OT networks.

In addition, the SCADAfence Platform provides Vestel's security team with interactive network maps that allow them to explore the connections between the assets. Despite the tens of thousands of assets and high traffic volume, the SCADAfence Platform's user interface is extremely responsive and provides quick and easy access to all of the processed data.

Following the discovery stage, Vestel's IT & OT security teams were able to constantly monitor the network and measure their security level improvements. The SCADAfence Platform helps Vestel to detect numerous risks and threats such as rouge Internet connectivity, weak authentication, unauthorized and abnormal industrial commands, and the detection of potential malicious activities.



"By integrating SCADAfence into our environment, we were finally able to add OT visibility and monitoring to our ongoing security operations."

Halil Aydin, IT Infrastructure and Operations Director, Vestel

About SCADAfence

SCADAfence is the global technology leader in OT & IoT cybersecurity. SCADAfence offers a full suite of industrial cybersecurity products that provides full coverage of large-scale networks, offering best-in-class network monitoring, asset discovery, governance, remote access, and IoT device security. A Gartner "Cool Vendor" in 2020, SCADAfence delivers proactive security and visibility to some of the world's most complex OT networks, including the largest manufacturing facility in Europe. SCADAfence enables organizations in critical infrastructure, manufacturing, and building management industries to operate securely, reliably, and efficiently. To learn more, visit our [website](#), check out our [blog](#), or follow us on [LinkedIn](#).

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See how Vestel uses SCADAfence to achieve these results

See it live