



Tuttnauer Devices Get Real-Time Software Security for Medical Devices

INDUSTRY

Healthcare

HEADQUARTERS

New York, USA

COMPANY SIZE

600 employees

OVERVIEW

Tuttnauer is a global corporate enterprise, developed in 1925, Tuttnauer boasts 100 years of industry leadership and experience as a manufacturer of infection control devices. With a global network of over 1200 distributors across more than 150 countries, Tuttnauer maintains a strong presence on all five continents.

Tuttnauer specializes in manufacturing sterilization and infection control equipment for the medical, laboratory, dental and veterinary segment. The product ranges from autoclaves and washer-disinfectors with services that include planning, design and installation of equipment. Tuttnauer leads with advanced manufacturing using robotic technology, as well as innovation with connectivity and system software, designed for device user enhancement.

OUR SOLUTION



Cybersecurity is crucial in safeguarding our devices, customer businesses and ensuring regulatory compliance. Our collaboration with Check Point inspires confidence in the robust protection of our devices against potential threats. This partnership not only secures our innovation but also underscores our commitment to the highest standards of security, ensuring the trust and reliability that the healthcare industry demands.

Haggai Abbo, VP R&D at Tuttnauer



CHALLENGE

In today's world of connectivity, integrating various systems, instruments, and devices into a unified, intelligent ecosystem, improves workflow efficiency and productivity, and is therefore in growing demand. From real-time monitoring to interconnected devices and advanced sterilization techniques, IoT is enabling this 'smart' transformation that is modernizing clinics and laboratories across the world.

The numbers of smart, connected medical devices are soaring. The global smart medical devices market size was valued at USD 46.80 billion in 2023 and is anticipated to reach around USD 152.30 billion by 2033¹. The rising investments in the development of healthcare facilities and technological advancements are driving the growth of the market. Such rapid growth is for a good reason: medical devices promise to forever improve healthcare with real-time device monitoring, real-time remote data and device management, enhanced efficiency, and improved medical care for patients. The T-Connect software developed by Tuttnauer, is truly a gamechanger in the world of sterilization devices, for all people that use or sell autoclaves or washer disinfectors in their sterilization center, from healthcare facility to laboratories and learning institutions. The T-Connect is managed by the secure SaaS portal and allows healthcare organizations to monitor remotely their entire connected autoclave device network.

Once these devices become networked, they are exposed to digital attacks similar to traditional networked devices such as desktops, notebooks, and smartphones. Breaches of medical devices risk the exposure of sensitive personal health data and threaten regulatory mandates. "The highly confidential nature of patient data, coupled with its value, positions the healthcare industry as a prime target for cyberattacks," details Shlomi Sivia, Head of Software at Tuttnauer.

As a global company that leads in market innovation, Tuttnauer understands the responsibility in investing in a cyber secure software that will guarantee data protection for its customers and ensure the integrity for the T-Connect software.



Cybersecurity is essential for protecting our devices, ensuring our customers' business continuity, and meeting regulatory standards. Our partnership with Check Point boosts confidence in our devices' security. It signifies our commitment to top-notch security standards, reinforcing the healthcare industry's trust in us.

Shlomi Sivia, Head of Software at Tuttnauer



¹ <https://www.precedenceresearch.com/smart-medical-devices-market>

SOLUTION

The Tuttnauer team chose to partner with Check Point to secure the T-Connect software and therefore the data stored on the autoclave devices, with Check Point's Quantum IoT Protect with Nano Agent. Quantum IoT Protect with Nano Agent provides real-time protection against known and unknown threats, and it effectively does so without disrupting the device functionality while in or out of use.

Check Point's Quantum IoT Nano Agent is also highly manageable and easily maintained. "After careful consideration and evaluating various companies, Tuttnauer made the strategic decision to partner with Check Point," Sivia said. "Check Point is a global leader in preventative cyber security solutions. Their comprehensive on-device IoT solution offers real-time protection against known and unknown threats, ensuring top-notch security without disrupting critical healthcare processes."

The Check Point Nano Agent resolves the concern Tuttnauer had regarding customer data protection, while providing the healthcare and laboratory industry with the most advanced technological software and devices for infection control.

Check Point Nano Agent allows Tuttnauer to meet regulations in the U.S. and the E.U., including FDA medical device security regulations published in 2023. The E.U.'s Medical Device Regulation (MDR), sets a comprehensive regulatory framework for medical devices in the E.U., including strict cyber security requirements such as risk management, security, and stopping unauthorized access.

The FDA requires medical device makers to comply with its Cyber Security Plan. The FDA Cyber Security plan mandates that manufacturers submit a plan to monitor, identify, and address cyber security vulnerabilities and exploits and design, develop, and maintain processes to provide reasonable assurance that the device and related systems are "cyber secure."

Check Point's Nano Agent team resolved Tuttnauer's need to meet the on-device security by managing the integration process. Check Point's Nano Agent team tested the security of the devices once equipped with the Nano Agent, giving Tuttnauer confidence that their devices would pass FDA regulatory requirements. "Our partnership with Check Point boosts confidence in our devices' security," Sivia said. "It signifies our commitment to top-notch security standards, reinforcing the healthcare industry's trust in us."

OUTCOME

Check Point's Quantum IoT Protect with Nano Agent protects Tuttnauer autoclave devices from illegitimate access, memory corruption, and zero-day attacks that could target the devices. When the system identifies an attack, it will block it and notify Tuttnauer's team for rapid response. "The solution itself is highly manageable, easily maintained, and scalable, providing Tuttnauer with a seamless integration experience," explains Shlomi Sivia.

The confidence of ensuring data security in the world of connectivity is of tremendous value to customers, especially in the healthcare sector.

ABOUT TUTTNAUER

Since 1925 Tuttnauer (www.tuttnauer.com) has been a global leader in the Healthcare and Life Science industries, specializing in sterilization and infection control equipment for medical, dental, and laboratory applications. The company offers a broad range of products, including autoclaves, washer-disinfectors, and comprehensive infection control solutions.

Tuttnauer also provides complete turnkey solutions that cover planning, design, and installation of equipment, as well as consultation and feasibility studies for projects of all sizes. Its products cater to the infection control needs of medical and dental clinics, CSSDs, hospitals, and laboratories.

With more than 400,000 installations in over 150 countries—including hospitals, clinics, laboratories, and research institutes—Tuttnauer has built a reputation for high-performance products and exceptional service. The company's commitment to quality and innovation continues to distinguish it in the sterilization and infection control industry.

ABOUT CHECK POINT

Check Point Software Technologies Ltd. (www.checkpoint.com) is a leading AI-powered, cloud-delivered cyber security platform provider protecting over 100,000 organizations worldwide. Check Point leverages the power of AI everywhere to enhance cyber security efficiency and accuracy through its Infinity Platform, with industry-leading catch rates enabling proactive threat anticipation and smarter, faster response times. The comprehensive platform includes cloud-delivered technologies consisting of Check Point Harmony to secure the workspace, Check Point CloudGuard to secure the cloud, Check Point Quantum to secure the network, and Check Point Infinity Core Services for collaborative security operations and services.

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Worldwide Headquarters

5 Shlomo Kaplan Street, Tel Aviv 6789159, Israel | Tel: +972-3-753-4599

U.S. Headquarters

100 Oracle Parkway, Suite 800, Redwood City, CA 94065

www.checkpoint.com

