

GuardiCore Helps Optimal+ Protect Confidential Data and Earn Customer Confidence

THE CLIENT

Optimal+, founded in 2005, is the established leader of Lifecycle Analytics for the electronics industry and its entire supply chain. Optimal+ improves the reliability and efficiency of electronic products and components through high-resolution life cycle visibility into the entire semiconductor and electronics supply chain. By harnessing domain-specific data science, Optimal+ can tell the unique “DNA” of each electronics component and predict its performance. This “DNA” allows for a deep understanding of product attributes and leads to a true assessment of how the product will perform over time.

THE CHALLENGE

Protecting Highly Confidential Data in the Cloud

While some Optimal+ customers deploy the company’s software in-house on their own servers, many access it as a service in the cloud (SaaS). There, the application aggregates, cleans and performs analytics on data from multiple manufacturing locations via the Industrial Internet of Things (IIoT). For semiconductor and electronics companies, product design and production processes represent extremely valuable and proprietary intellectual property – and therefore need to be secured from prying eyes.

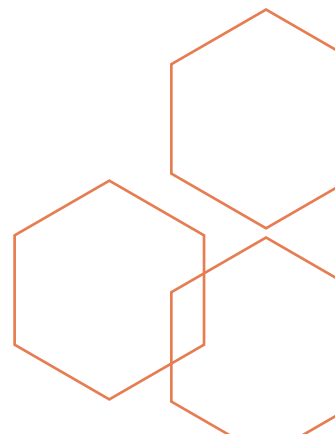
“Our customers’ data is totally confidential,” explains Dubi Yarhi, head of global IT and MIS for Optimal+. “We are dealing with a lot of information about their production environment and their core business, namely the design of the chip. So protecting their data is mandatory, and that is our main security objective.”

The company’s cloud service provider, Amazon Web Services, provides basic security tools that Optimal+ was looking to expand. Yarhi believed he needed tighter security controls and greater visibility within his cloud environments in order to meet the company’s commitments to its customers. Of particular concern was the possibility of a hacker breaching the perimeter defenses. “If an attack gets through the firewall, you don’t know that it’s in your system,” Yarhi points out. “So I was looking for a tool that would give me visibility into what was happening at any given time in my internal environment, in the servers and the network.”

OPTIMAL+
Lifecycle analytics you can trust

“GuardiCore gives me something that I didn’t expect. It gives me full visibility into my network. This is impressive and provides the clarity needed to meet our security needs.”

- Dubi Yarhi
Head of Global IT and MIS,
Optimal+



THE SOLUTION

GuardiCore Centra™ Security Platform

The GuardiCore solution employs a combination of deep visualization of east-west traffic, micro-segmentation, and multiple breach detection and response methods; notably dynamic deception. GuardiCore integrates seamlessly with all leading cloud platforms, including AWS.

Specifically, Yarhi identifies three key features that distinguish the GuardiCore solution and deliver the most benefit to Optimal+.

- **Micro-segmentation:** GuardiCore's micro-segmentation capabilities enable security teams to create and enforce security policies around individual or logically grouped workloads, restricting unauthorized communication between processes and applications. "I'm using this feature quite extensively," Yarhi says. "Although we could implement a multi-tenant environment to

save money, we prefer that every customer has its own environment. With micro-segmentation, we can implement internal firewalls between the environments. This is an additional benefit beyond the basic security package."

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- **Dynamic Deception:** Static threat deception solutions require users to configure decoys or "honeypots" for specific purposes in advance of deployment, which means trying

to anticipate every possible threat scenario within the cloud environment. Static decoys also require constant reconfiguring, particularly when there are changes to the environment. "With GuardiCore we get dynamic deception capabilities," Yarhi says. "We don't have to think in advance about all the honeypots we need to deploy in the network. That was very appealing." Smart attackers can actually recognize static decoys as distinct from active servers and figure out how to avoid them, Yarhi notes. With GuardiCore's dynamic deception, decoys are automatically activated to engage threats when anomalous behavior is detected. "If someone is trying to hack a honeypot, then we know an attacker is within the network. Every wrong movement is captured. That's a benefit of GuardiCore."

- **Visibility:** Yarhi acquired the GuardiCore platform to meet his security needs, and originally viewed it as simply as a security tool. "But after a few months working with it, I realized that GuardiCore gives me something that I didn't expect," he says. "It gives me full visibility into my network. This is amazing. I know exactly what is happening. I can see the flow of the data, which servers are talking to each other and whether that's ok. If I see data going from one tenant to another, for example I know there is a mis-configuration and I can fix it. Without GuardiCore, I don't know how this would be possible. For us, visibility is the main benefit of GuardiCore."

- Dubi Yarhi
Head of Global IT and MIS, Optimal+

In addition to the key product features, Yarhi has also taken advantage of GuardiCore's Cyber Security Analyst Service for in-depth analysis of security incidents and other suspicious activity flagged by the GuardiCore Centra solution.

Standing Up to Due Diligence

Optimal+ provides a sophisticated service to a select group of very large customers. Before entrusting their valuable data to the Optima+ analytics service, customers perform rigorous due diligence on the company and its offering. Security in particular receives a high level of scrutiny. "They're checking on the tools that I am working with," Yarhi says. "They want us to protect their data, and when I tell them we have a tool that provides detection and shows us what's happening in our network, it gives them peace of mind."

The Optimal+ cloud-based offering also has to meet industry-standard security attestations, which includes demonstrating how the security team detects anomalies in data traffic. "We are ISO 27001 certified," Yarhi says. "GuardiCore has also helped us meet the specification of the security standard."

GuardiCore enables Optimal+ to deliver a cloud-based software solution that customers can utilize with confidence that their data is highly secure. "In the past, companies were afraid of the cloud," Yarhi observes, "but lately it seems that's changing. If you are taking all the necessary measures and installing and configuring the right tools, the cloud is probably more secure than on-premises servers."

GuardiCore offers a solution that makes it possible. For Optimal+, that's a plus.

About GuardiCore

GuardiCore is an innovator in data center and cloud security focused on delivering more accurate and effective ways to stop advanced threats through real-time breach detection and response. Developed by the top cyber security experts in their field, the GuardiCore Centra Security Platform is changing the way organizations fight cyber attacks.

More information is available at www.guardicore.com