

Case Study

ECI Relies on Minerva's Innovative Malware Prevention Solution to Avoid Ransomware, Strengthen Defense-in-Depth Security

ECI is a global provider of ELASTIC network solutions to CSPs, critical infrastructures, and data center operators. In addition to its well established, industry proven packet-optical transport business, ECI offers a variety of SDN/NFV applications, end-to-end network management, a comprehensive cyber security solution, and a range of professional services. ECI's ELASTIC solutions ensure open, future-proof, and secure communications. ECI partners with leading CSPs in 70 countries; hundreds of millions of people around the world rely on ECI for their everyday communication needs.

The Challenge

ECI's internal cyber security program has to be exemplary to ensure no internal breaches. Malware developers are increasingly sophisticated and often use evasion techniques to get around security measures. Signature-based (AV) security solutions, sandboxes, firewalls, and gateways can all be bypassed, and malware authors continually develop new evasive strategies. According to a recent SANS Institute report, [malware programs capable of evading detection](#) rose 2000% in one year (2014-2015).

ECI understands that today's cyber security threats are constantly changing. As a result, there is need for an internal enhanced solution that is able to deal with evasive malware attacks that bypass existing security mechanisms, including AV and automated incident response (IR).



The Solution

ECI was seeking a solution to augment their overall in-depth security program and complement their existing AV deployment. Minerva's award-winning Anti-Evasion Platform delivers prevention before detection by keeping malware in a constant sleep state. The solution neutralizes the malware before it can be installed, and before any damage is done. By simulating security and forensics tools at every endpoint, Minerva's technology tricks the malware into believing it is inside a secure environment (such as sandbox, debugger, etc.) so it doesn't activate.

Minerva's Anti-Evasion Platform also works with an organization's existing solutions (AV, next-gen AV, sandbox) by sharing all evasive malware that Minerva prevented with these solutions. It fully integrates with the company's defense-in-depth measures and increases the value and effectiveness of each component.

Minerva's endpoint agent is lightweight, doesn't have pre-requisites, and doesn't necessitate rebooting.

The Result

ECI deployed Minerva's Anti-Evasion Platform on endpoints worldwide, securing systems for approximately 2000 employees. Deployment took less than a week; the solution has been in place for well over a year. ECI's security team is now more confident when responding to alerts and notifications. They can mitigate the "sleeping" malware on their own time because it has been neutralized and poses no threat. They can also reduce time spent on false-positives.

The Minerva solution automatically notifies the IR solution of the existence of malware so that it can find and eradicate it quickly. As a prevention-oriented solution, it offers protection from cyber threats "in the wild" (actively spreading between the computers of unsuspecting users), including variants and new strains not yet added to signature-based updates.

In the past year, Minerva's solution has helped the ECI security team prevent many different cyber security threats such as: Trojan horses, application cracks, exploit kit attacks, as well as an Andromeda malware infection. Alan Idelson, CISO, Information Security & Operations Leader of ECI noted, "Working with Minerva's team of experts was a great experience. It was a pleasure to see how the team investigates with passion and dedication, providing great answers for complicated scenarios and adding value with their innovative solution."

Now that ECI has deployed Minerva's Anti-Evasion Platform and linked it to their integrated AV and automated IR solutions, it saves ECI time and resources. Integrating Minerva with their existing solutions has helped secure ECI's defense ecosystem and enhanced the value of their security investments.



Today's global business climate demands constant reinvention. Companies that can adapt quickly will own the future. Minerva ensures this with their innovative, agile solution. Their unique threat prevention approach and lightweight agent enables us to fine tune our security efforts.

**Alan Idelson – CISO,
Information Security
& Operations Leader**

About Minerva

Minerva is an innovative endpoint security solution provider that protects enterprises from today's stealthiest attacks without the need to detect threats first, all before any damage has been done. Minerva Anti-Evasion Platform blocks advanced threats designed to evade existing defenses, by creating a virtual reality that controls how malware perceives its environment. Without relying on signatures, models or behavioral patterns, Minerva's solution causes malware to disarm itself, thwarting it before the need to engage costly security resources.

Headquartered in Israel, and with offices in New York and Atlanta, Minerva boost customers' existing defenses without the need to embark upon a costly and risky overhaul of their entire endpoint security architecture. To learn more about Minerva, visit www.minerva-labs.com.