

# Heavy Equipment Leader Deploys iSign Solution to Contain Ransomware Attack



**A leading heavy equipment organization believed that their system was secure through their hardware and configuration; they were hit by a sophisticated ransomware attack that threatened their operations and critical data.**

## BACKGROUND

A heavy equipment company headquartered in the United States was going about their normal operations when their primary server infrastructure suddenly crashed; the company's servers were encrypted by an aggressive ransomware attack. All critical data had been encrypted; leaving only a message from the attackers instructing the victims that they were to, "please contact me so we can take care of this". The company was not about to deliver an extortion payment, so they set out to rebuild from contingency files. They knew they needed a better solution to protect against such an attack in the future. They contacted iSign, who immediately set to work on deploying iSign Protector SE, the most advanced protection software suite available.

iSecure Protector SE delivers advanced AI, 6-factor frictionless biometric authentication and intelligence-driven algorithm and technology to bear, combining them with intuitive tools, automated traffic analysis, and complete malicious attack denial. iSign brings highly advanced, yet intuitive protection to the user through frictionless, 6-factor authentication that goes beyond the standard WebAuth/FIDO2 authenticators and virtually eliminated the human vulnerability. Sign Protector completely eliminated the malware's ability to communicate outside the environment, eliminating the threat of further compromise and preventing catastrophic operational and economic consequences.

Since the deployment of iSecure Protector SE, the company has been completely protected and has complete visibility on malicious traffic while being automatically protected against sophisticated ransomware and other advanced threats.

## EVENT OVERVIEW

**Industry:**  
Heavy Equipment

**Attack Type:**  
Ransomware

**Access Vector:**  
Social Engineering

**Impact(s):**  
Operational disruption, complete loss of critical data, revenue loss

## SOLUTION

The organization deployed iSign Protector SE on servers and endpoints across their network that were infected with malware; stopping the attack in its tracks and restoring operational integrity to their network.

**“** iSecure Protector put a dome over our network. It automatically identified, flagged, and prevented traffic from questionable or known malicious sources.

- Enterprise IT Manager





“*The installation was incredibly easy. On a scale of 1 to 10 in difficulty, it was a 2. We installed the software and no longer had to micromanage anything; it’s automatic. The configuration is easy and it simply denies any potentially malicious traffic. We used to have to spend a lot of time on this, but iSign has freed up our resources to focus on our core business.*

- Company Principal



### iSecure Protector SE

Protects servers with advanced dynamic RDP and SSH port opening. Monitor both inbound and outbound network data packets with real-time packet translations. Easily configure iSecure Protector SE to automatically detect, identify, and block suspicious IP addresses. Get instant SMS and/or email alert of suspicious activities.

### RANSOMWARE: THE IMPACT

A malicious software designed to encrypt critical files of the target organization, ransomware has crippling operational and economic effects. Without proper protection and mitigatory measures, ransomware will cripple an organization operationally and financially. It is one of the fastest growing and significant cyber threats to companies today.

### THE CHALLENGE: RANSOMWARE - AFTER IT STRIKES

Prior to the attack, the company had strong anti-virus and other mitigation methods in place to address the most common attacks while their servers were properly configured as per best practices. And while algorithms to protect against the majority of attacks, they do not mitigate against some of the most sophisticated threats represented across today’s increasingly sophisticated threat landscape nor do they address the largest vulnerability: the human (user) vulnerability.

The Challenge: How do organizations deploy an end-to-end solution that not only mitigates malicious activity from accessing a network, but also neutralizes malware and deny malicious actors the ability to impact operations and extract critical data? The answer is to deploy iSecure Protector SE across the enterprise before an attack can happen. But in this instance, that was not possible, but the organization knew that it needed to protect itself from any future attacks.

### ISIGN PROTECTOR SE: BACK FROM THE BRINK

iSecure Protector SE was deployed quickly with little assistance from iSign technicians. Following the simple installation, a protective dome was placed over the enterprise, denying any potentially malicious traffic the ability to exfiltrate data or communicate outside of the network. Following this, iSign Protector SE performed an exhaustive review of all IPs that made connection with the company’s network within the same time frame of the attack chain, detected all the malicious (or potentially malicious) actors and permanently denied them access.

The result was the complete mitigation of the threat to the company and its operations. iSign Protector SE allowed the company to set its own rules within the network operations, allowing them to hone their deployment to block all malicious activity while avoiding operational disruption. Furthermore, iSign Protector addresses the vulnerability associated with the access vector used in the ransomware attack; the human (user) vulnerability.

iSign’s advanced 6-factor, frictionless biometric authentication helps deny malicious actors the ability to exploit the human vulnerability while creating a more efficient user experience. iSecure Protector SE brought the company back from the brink and gave them the ability to move forward quickly and the confidence knowing they were protected from future attacks.





iSecure Protector SE provides frictionless, 6-factor authentication that goes beyond the standard WebAuth/FIDO2 authenticators.

### Learn More

To learn more about iSecure Protector SE or any other iSign International product or service and how iSign can make your enterprise more secure and efficient, request a demo today.

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### POST ATTACK: REMAINING VIGILANT

Following the attack, iSign Protector SE remained vigilant, continuing to detect and deny any additional dubious actor and provide company stakeholders complete visibility on their ecosystem traffic, threats, and resolution options.

### DEPLOYMENT RESULTS: COMPLETE DENIAL

Following the deployment, the company observed and prevented all outbound malicious traffic; effectively neutralizing the threat. They observed malicious software attempting to connect with servers in Eastern Europe and other locations knowingly associated with malicious cyber activity. iSign Protector SE completely denied the malicious software the ability to perform any of its actions and neutralized the threat. Furthermore, the company was able to harden their attack surface and manage accesses while ensuring data protection, availability, and integrity. iSign Protector SE effectively shut off the spigot to the bad actors, denying them access to the targets and data they need to extort and monetize the target.



*We installed the software and that was it. I no longer had to micromanage the servers; it's automatic. Not only was the configuration easy, the results were immediate. The solution simply kicked out anything that shouldn't have been there. We used to have to a lot to protect the network...now we do a little and we can focus on other aspects of operations.*

*- Company Principal*

### ABOUT ISIGN INTERNATIONAL

iSign International is a digital security software company focusing on complete cyber security solutions integrating leading edge biometric signature, threat detection and prevention. Its solutions identify rogue activity on your network, block unauthorized traffic (both inbound and outbound), and protect against internal and external attacks with total control given to the user. iSign's proprietary 6-Factor authentication including username, dynamic token, device, geolocation, blockchain, and biometric signature provide unmatched security for your entire enterprise.



*iSign's SmartGuard is such an innovative solution and tremendously helps monitor and detect malicious activities in a real-time manner by leveraging a hardware-assisted security assurance for home and business environments.*

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