

Case Study

SCADAfence Secures Argentina's T6 Agro-Industrial Complex

Background

As the most important agro-industrial complex in Latin America, T6 is a potential target for cyber-attacks of all kinds.

The problem facing T6 was how to safeguard automated industrial processes from three decades ago, when industrial complexes were stand-alone. T6's goal was to safeguard its increasingly connected Operational Technology (OT) from all types of cyberattacks. After examining other offerings, T6 selected SCADAfence as their cyber security management solution. The solution had to provide security, policy management, and allow for quick integration into the industrial network.

The challenge facing SCADAfence was to safeguard a technology-diverse industrial and shipping facility, while it was being rapidly expanded and upgraded.

A joint venture between AGD and BUNGE, T6 is located on the banks of Argentina's Paraná River and houses a whole series of agro-industrial processes with an annual maximum shipping capacity of 13 million tons. The facility has a current reception capacity of 80,000 tons per day of raw material with storage capacity of more than 1.6 million tons of dry solid products and liquids. The facility's total soybean crushing capacity is over 20,000 tons per day, producing crude oil, protein meal, hull pellets in addition to biodiesel and refined oils.

Evaluating T6's Challenges

When T6 undertook an initial cybersecurity study a year ago, they discovered a few gaps in their existing cyber controls. Those gaps, in combination with the growing global risk of cyberattacks, justified the launch of a new cyber security program.

Plant automation systems, industrial networks and IIoT (Industrial IoT) devices were identified as targets for the program.

Their study further revealed, that in order to grow and continue digitalizing their operations, it is required to perform a more granular asset tracking and tighter policy management. Policy management assures the organization that standards remain high even while performing upgrades.



"We were surprised at how valuable it is to have real-time, accurate information about our security posture.

The SCADAfence Platform extends the power of our security engineers, and aligns our entire organization under the same policies and best practices."

Rodrigo Diaz, Supervisor of Infrastructure Systems at T6

Executive Summary

T6 - One of the Largest Private Ports in Latin America

- Daily reception of 76,000 tons of products.
- Milling capacity of over 20,000 tons/day.
- Produce crude oil, protein meal shell pellets & refined glycerin.
- Over 1.3 million tons shipped.

T6's Challenges

- New technologies for plant automation systems increase exposure to potential attacks.
- IT/OT convergence, remote access and policy enforcement capabilities.
- Lack of forensics and incident response capabilities in OT.
- Governance and policy management tools.
- Automated vulnerability assessment.

Why SCADAfence Was Chosen

- **Immediate Risk Reduction**
Real-time threat detection.
- **Full Visibility**
Asset & network monitoring across all of production sites & refineries.
- **Vulnerability Management**
For embedded (PLCs, IEDs, etc.) and Windows devices.
- **Governance & Compliance**
Policy management and compliance for all sites.

Key Benefits:



Full visibility, asset and network monitoring across all production sites and refineries.



Vulnerability management for embedded (PLCs, IEDs, etc.) and Windows devices.



Real-time threat detection of known and unknown threats.



Policy management and compliance for all T6 sites.

Finding The Right Solution

T6 examined a number of cybersecurity offerings before deciding on SCADAfence as the best option for safeguarding the integrity of its OT systems. SCADAfence was selected due to its unique ability in providing governance and policy management tools, together with its unique ability to detect complex threats. This enables administrators to keep security levels high, and respond in real-time to events that jeopardize operational continuity. By detecting malware infections, misconfigurations and device malfunctions – IT and OT managers can reduce the likelihood of downtime in critical operational networks.

T6 had experience with a network monitoring solution, but it couldn't process OT-specific traffic, and lacked policy enforcement capabilities. They found that SCADAfence offered the only solution able to process 100% of the packets in real time, and be configured to enforce company policies. SCADAfence also met another of T6's crucial requirements – performing an on-going, automated vulnerability assessment process that doesn't require manual labor. This has enabled T6 to perform vulnerability assessments anytime, rather than being forced to rely on an annual or quarterly security assessment, as was previously the case.



The Results: Improved Visibility, Security and IT-OT Communications

Within minutes of deployment, the SCADAfence Platform provides full visibility into the OT network



"The SCADAfence Platform is constantly being improved based on feedback from the field. Challenges that we faced were resolved even before we had the chance to request them."

Mr. Enrique Fiorenza - CIO at T6

About SCADAfence

SCADAfence is the global technology leader in OT/IoT cyber security. The SCADAfence platform enables organizations with complex OT networks to embrace the benefits of industrial IoT by reducing cyber risks and mitigating operational threats. The non-intrusive platform provides full coverage of large-scale networks, offering best-in-class detection accuracy, asset discovery and user experience with minimal false-positives. 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 manufacturing, building management and critical infrastructure industries to operate securely, reliably and efficiently. To learn more, go to www.scadafence.com

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