

Securing Latin America's Largest Private Port & All Their Agro-Industrial Operations

THE CHALLENGE:

Convergence between Terminal 6's IT and OT networks was needed in order to achieve full visibility between their interconnected IT & OT networks. Terminal 6 also needed to automate their manual processes in OT which included their asset inventory, forensics, incident response capabilities and vulnerability management. Additionally, Terminal 6 needed better OT device visibility to swiftly detect and fix any misconfigured OT equipment and to increase their operational productivity.

THE OUTCOME:

Immediate risk reduction with real-time threat detection of known and unknown threats and complete visibility between their IT & OT networks across all production sites and refineries. Terminal 6 successfully automated their asset inventory and vulnerability management for embedded OT devices, allowing them to run daily risk assessments and having incident response capabilities. Terminal 6 also has complete visibility into their OT equipment which is significantly reducing risks and ensuring operational productivity.

Terminal 6 is the largest private port in Latin America. Terminal 6 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 of products.

-  Headquarters
Puerto General San Martín, Argentina
-  Sector
Industrial Port
-  Industries
Oil & Gas, Protein Meal, Shell Pellets and Refined Glycerin
-  Production
Daily reception of 80,000 tons of products

EVALUATING TERMINAL 6'S OT SECURITY CHALLENGES

When Terminal 6 understood that they had limited visibility into their OT networks, they recognized the need for better security in their IT & OT environments. Their OT team started to investigate the state of their OT-related equipment. Their initial findings resulted in the need to secure their increasingly connected OT & IoT devices from all types of cyberattacks.

Their findings, combined with the growing global risk of cyberattacks, justified the need to find the right solution that will provide full visibility, threat detection, vulnerability management and automatic asset inventory into their OT networks and equipment.

Additionally, Terminal 6's study into their OT environments showed they needed to quickly increase the use of automation for all OT operations. This required Terminal 6 to look for an OT security solution that could digitalize and perform a more granular asset inventory tracking system. The solution also needed to help them detect, manage, and mitigate their top OT risks to their industrial devices.

On top of network visibility, Terminal 6 was seeking a solution that would provide holistic visibility into their OT devices. The solution would need to provide quick detection and address misconfigured equipment which would result in improving Terminal 6's operational productivity.



"Before SCADAfence, our IT team had no visibility into our OT networks and we didn't have the capability to discover which devices were connecting to our networks. Now with the help of SCADAfence, we have complete visibility and share the same platform with OT team to discuss what is happening in our OT networks."

Rodrigo Díaz, Supervisor of Infrastructure Systems at Terminal 6



One of Terminal 6's crushing plants. Their milling capacity is 20,000 tons per day, and obtains the following by-products: Protein Flour, Crude Oil & Shell Pellets.

FINDING THE RIGHT SOLUTION

Terminal 6 examined several cybersecurity offerings before deciding on the **SCADAfence Platform** as the best option for safeguarding the integrity of its OT systems and IIoT (Industrial IoT) devices.

With the SCADAfence Platform deployed, Terminal 6's security team now has full visibility into their OT networks and environments, including the discovery of all of the devices in their entire port. Using the platform and its ability to support large-scale networks, Terminal 6 got complete network coverage for all three of their operational processes:



Agro-Industrial Port



Soybean Crushing Facilities



Biofuel Processing Plants

Additionally, Terminal 6 automated and digitalized the asset inventory process of its OT environments and their vulnerability management for embedded OT devices (PLCs, IEDs, etc.), allowing them to run daily risk assessments and adding incident response capabilities. For example, the SCADAfence Platform was able to provide insights and actionable mitigation into issues that were related to the programming of their PLCs operations. This has allowed Terminal 6's security team to fix these issues in real-time and raise the security level of all their operations.

Terminal 6's security team is also being alerted on vulnerable and misconfigured devices in their OT network, this includes their PLCs, industrial gateways, switches, HMIs, and servers, that they were previously not able to see.

SCADAfence also met another of Terminal 6's crucial requirements – performing an ongoing, automated vulnerability assessment process that doesn't require any manual labor. This enables Terminal 6 to perform vulnerability assessments anytime, rather than being compelled to rely on annual or quarterly security assessments, as was previously the case.



“SCADAfence is one of the most valuable solutions in our security stack. We were able to immediately reduce our risk with real-time threat detection and alerts. We now have full visibility and monitoring across all of our sites and can manage any risks in embedded PLCs and IEDs.”

Enrique Fiorenza, CIO at Terminal 6

About SCADAfence

SCADAfence is the global technology leader in OT & IIoT cyber security. SCADAfence offers a full suite of industrial cybersecurity products that provides full coverage of large-scale networks, offering best-in-class network monitoring, asset discovery, governance, remote access and IIoT device security. A Gartner “Cool Vendor” in 2020, 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 critical infrastructure, manufacturing and building management industries to operate securely, reliably and efficiently. To learn more, visit our [website](#), check out our [blog](#), or follow us on [LinkedIn](#).

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See how Terminal 6 uses SCADAfence to achieve these results

See it live