



SecurOS LPR and Container Recognition Solutions Being Deployed in one of Brazil's Largest Ports

Centralized Management of Seaport Security for Teporti and Itazem Terminals

KEY FEATURES

- SecurOS Premium
- Video Analytics
- License Plate Recognition
- Container Recognition
- Integration with Port Management Systems

BACKGROUND

The largest port in the state of Santa Catarina, and the second largest in Brazil, in terms of the movement of containers, Itajaí Ltda is a major transport hub for the import /export industry. It serves as the main port for exports in the region, and almost all production of the state of Santa Catarina moves through it at some point.

With 24/7 operations, one of the challenges faced by port terminals was keeping track of container information for customs officials. Containers are typically transported to a dry dock away from the port for inspection by customs. The number on the container was typically entered manually by an official along with the license plate of the driver and the weight of the container. As the port grew in size and importance, this manual method of entry became very cumbersome and time consuming and was not effective for sharing information in real time between port staff and customs officials. In addition, security checkpoints and systems were diffuse with no central management, which was an issue two port affiliated companies, Teporti and Itazem, wished to resolve with a security upgrade.

Issues Teporti and Itazem needed to address included:

- An integrated security system that included Container Recognition, License Plate Recognition, access control, perimeter alarm systems, an audio system, floor plan, storage, and monitoring
- A scalable system, so that upgrades could be seamless
- Integration with port management software for container/truck control.

As part of automating the security process, the terminals sought a solution that could automatically capture both the relevant container and license plate information and weight of the truck. Working through WDC, a Brazil based international distributor and business partner, they were introduced to the SecurOS License Plate Recognition (LPR) and Container Recognition solutions



THE SOLUTION

Teporti and Itazem terminals were impressed with the proven ability of ISS software to capture key information on plates and containers in various weather and lighting conditions and share it with relevant officials regardless of location. The fact that ISS offered an all-in-one solution with analytics such as facial recognition (FCR) also a key advantage. Management at both terminals could foresee a need for FCR and did not want to have to add on this feature after the fact through a different vendor, with all the cost, time, and potential complications that could involve. With SecurOS, analytics features can be made operational on an as needed basis.

They have also been favorably impressed by the alarm and reaction management system SecurOS provides. "Beyond needing to automate the security process, they also needed to be able to have a proactive security system; one that could help prevent theft, instead of merely being a forensic tool after the fact," explained Paulo Hack, Director of Speed Sistemas, whose company is responsible for the design, implementation, customization, and maintenance of the system. "With ISS, the relevant information on containers and license plates can be shared immediately with various security and customs officials. If a truck doesn't make it from dry dock to the seaport in a timely way, or if its weight when it does arrive does not substantially match the dry dock weight, the video can be easily flagged."

Beyond the fact that relevant security information can be shared in real time between security and customs officials, as well as other law enforcement officials, the terminals have been impressed with the hands on, customized approach of WDC, Speed Sistemas and ISS. "They custom made a solution for us that addressed all our special needs, including our concerns about dealing with legacy systems, upgrades, and failover features in the event of an outage," said Julio D'Avila of the Teporti and Itazem terminals.

"Our issues are very critical in that we need customs officials to have easy and instant access to relevant information," said Mr. D'Avila. "Along with that, we needed software that was a cut above and less prone to errors when it came to capturing relevant plate and container information. For us, the advanced algorithms of ISS mean much more accurate reads and the ability to read clearly in all kind of conditions, and to read horizontally as well as vertically."

THE BENEFITS

Mr. D'Avila has reported a high level of satisfaction with the overall results of their upgrade. "Our processes are more streamlined now because of SecurOS," he explained. "Customs officials are satisfied because information is available to all relevant personnel in a very timely way, and security staff have the peace of mind of knowing that containers can be tracked more easily, along with the drivers."

The current SecurOS deployment includes eleven channels of Container Recognition, six channels of LPR, and fifty-six real time video channels, with the potential for further build-out. It has been deployed by Interporti and Itazem.

Mr. D'Avila has also reported a great deal of satisfaction with the automated features of the software. "Because security staff don't have to be constantly entering data about trucks and cargo and weight, they are more freed up to be hands on in their job. In an age in which there are concerns about both terrorism as well as inside theft of cargo, the ability of security to do more patrols and keep abreast of potential threats is extremely important. To that end, we can do more with less staff because of the advanced security features of SecurOS LPR and container recognition."



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