# Cargill

**ISS**

Securing Commerce using
SecurOS Transit

*Cargill Keeps Looters and
Vandals Away from Cargo
with SecurOS Transit*

## Key Features

SecurOS Enterprise
Video Analytics
Rail Carraige Character Recognition
License Plate Recognition

## Background

Cargill is an international manufacturer and supplier of food, agricultural, financial and industrial products and services. The largest division of Cargill is in Russia, in the city of Yefremov, and it is a leading supplier of corn syrup, starch and other ingredients for the food industry in Russia. Intelligent Security Systems (ISS), a leader in video management and video analytic software, has been handling video surveillance for Cargill in Yefremov for over a year. ISS has already implemented over 10 projects to ensure safety and security-related automation trends.

Prior to ISS working with Cargill, the existing security system was implemented on obsolete analog video surveillance technologies, being scattered over the territory and not integrated with access control systems, security and fire alarm systems. Using a wealth of experience and the latest technology, ISS was able to build an advanced security system that meets the highest standards everyday to help save time, effort and money, and help the company to deal with problems they were having with theft and vandalism of rail cars.

## The Installation

The installation involved a total of 160 cameras (5 PTZ), SecurOS Transit (2 cameras – 1 at rail crossing, 1 camera at the railroad scales) and SecurOS auto (10 cameras)  Some of the security installations included: a system of automatic recognition of rail cars and tanks (SecurOS Transit), which included automated gates the trains have to pass through and which calculate statistics on the number of cars and the time spent weighing the cars. The system eliminates the human factor and any possible fraud. This system will soon be integrated with the ERP (Enterprise Resource Planning) system, which will further speed up the weighing process and reduce costs.

All vehicle entrances are equipped with a system for recognizing vehicle license plate numbers (SecurOS Auto). Any vehicle passing through is recorded in the video archives and the vehicle's license plate number is stored in a database, in order to avoid any conflicts. Likewise, increased security measures are employed throughout the entrance, which includes a freight card reader, WI-FI mobile readers and additional barriers. All this accelerates the process permits and inspection for permitted vehicles and make it impossible for illegal entry.

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> *Rinant Nasyrov,*
> *Security, Emergency and Fire*
> *Safety Manager at Cargill*

In the factories, the CCTV video management system (SecurOS Enterprise) is integrated with access control and fire alarm systems. All alarm events, whether it be a fire, the train coming to important areas or other emergencies, are displayed on a specific monitor in the monitoring/command center. That allows employees to react instantly to protect and control what is happening. The system automatically displays the plan object and sees which sensor is triggered, which door has been opened and sends an alert to the camera. The operator can instantly view video from a camera, and even remotely open the door if the situation calls for it. The access control system is integrated with the automatic gates, allowing access to authorized personal only.

The use of modern IT technology makes it possible to use a variety of fiber-optic lines that connect the most remote areas and facilities to the overall security system. Now all the cameras are displayed in a single command/control center. In addition, remote access to the facilities is implemented using the SIP-intercom system, allowing remote locations to communicate with permanent guards, and if needed to transfer employees to a quick response center. All of this has made security much more efficient at the facility.

From the top level, all the heads of the large factories and destinations can monitor all the processes in Cargill with constant video recording of everything in production, and each organized workplace in the office with access to the security cameras belonging to their plants.

## Results

The new security system reduces costs, improves security, and helps Cargill implement its mission effectively and efficiently.  The system is currently being expanded to include SecurOS software in 230 cameras.

"Before SecurOS solutions from ISS, we were trying to have security on the ground deal with problems with theft from the rail cars.  But there were too many problems for any single security team to deal with constantly," said Rinant Nasyrov, Security, Emergency and Fire Safety Manager at Cargill.  "We needed the sort of automated solutions and alerts SecurOS provides, to be able to stay a step ahead of the bad guys, and without having to increase security staff.  Their solutions not only keep our employees safer and cargo more secure, but they save us money by utilizing our security staff more efficiently."

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