

## Minera Vale monitored with Axis cameras.



Organization:  
Minera Vale

Location:  
Bayóvar, Piura, Peru

Industry segment:  
Industrial/  
Manufacturing

Application:  
Safety and security,  
remote monitoring

Axis partners:  
Prosegur Tecnología,  
LENEL, Consorcio  
Tecnét Ibermática

### Mission

Minera Vale is a private Brazilian mining company that trades in the stock exchange, and is an iron ore producer worldwide. Currently, it has over 100,000 employees and offices in Brazil, Australia, Canada, China, Japan, Singapore, South Korea, and Switzerland.

As a result of the beginning of phosphate production in the Peruvian mine located in Bayóvar (Piura) with a production capacity of 3.9 million tons of rock a year, including a phosphate concentrating plant that has a 32 km highway, transporting rails, and a maritime terminal, the mining company decided that in order to have full control and monitoring of the activities that take place in these environments, they would implement a comprehensive electronic security project, including CCTV and access control.

This has been implemented on SkyPoint, a simple, agile, and powerful platform developed by LENEL, capable of supporting the different systems that form the electronic security solution; for example, the implementation of 66 Axis network cameras.

The video surveillance system and the technological solution applied respond to the needs and standards of the modernity, flexibility, and cutting-edge technology required by the client in the continuous enhancement of its processes and in the management of images and recorded video for a better efficiency of the video surveillance system as a whole.

### Solution

Prosegur Tecnología, a division of the multinational company Prosegur, with 29 years of experience in the Peruvian market providing comprehensive security services, implemented the project and proposed a solution that uses IP video products from Axis, including security camera models AXIS 221, AXIS 225FD, and AXIS 233D. A total of 66 units were installed together with the management software that allowed the integration of the different integrated technologies for this large project, under the direction of Axis partner, Lenel. This successful experience implemented in Peruvian territory will be copied in other countries in the region where the mining company is located.

"Our choice of Axis was based on the knowledge that it is one of the TOP suppliers in its line, with excellent quality and an ensured 3-year guarantee. In addition, it was endorsed by Lenel because the products worked successfully on the Skypoint platform."

Gino Mori Valenzuela, General Manager for Prosegur Tecnología Perú S.A.

Security cameras, operated from two Control Centers – one located in the Mining area and the other in the Drying area – were installed in hallways and the mine's internal corridors as well as outside and also in the port's surroundings. The project began developing and was established in March 2011 and its conclusion is expected in a 2-month period. Furthermore, since it is based on open technology, the system supports new improvements and updates.

## Result

Minera Vale can now control, monitor, and store images that come from each and every one of the cameras located at different sites of the mine and the port. Both control centers are able to access live or recorded, and use them for two purposes: to support the security area of the mine and the port as well supporting the police and fire departments, so that they can act in the event of problems or accidents.

The images may be used as evidence with the District Attorney's office to identify perpetrators in the event of security incident. Currently, the security level in the surroundings of the mine and the port has been considerably enhanced, since any member of the staff or pedestrian onsite has a better sense of being protected, resulting in better quality customer service and an increase in staff productivity.

## High performance needs

- > Ability to monitor locations remotely
- > Vision in real time
- > Scalability and user manageability
- > Multi-camera functionality to view and record several cameras at the same time
- > Multi-user functionality, management of user privileges
- > Programming of continuous recordings
- > Use of broadband as the communications support

## Future applications

Minera Vale expects to continue with the installation of a larger number of security cameras for the Bayóvar II project, which will be in the same area of this project.

### About Prosegur Tecnología – [www.prosegur.es](http://www.prosegur.es)

Prosegur Tecnología is one of the business lines of the multinational company Prosegur, a leader in private security, offering all the services of the sector such as: security consulting, active surveillance, remote control and remote surveillance, anti-intrusion protection, fire protection, cash management, cashier management, and securities logistics. It has presence in Argentina, Brazil, Colombia, Chile, Spain, France, Italy, Mexico, Paraguay, Peru, Portugal, Romania, and Uruguay.

### About Tecnet Ibermática – [www.tecnet.com.ar](http://www.tecnet.com.ar)

Tecnet Ibermática is a leading company in the integration of systems for automation, control, and communications of business processes. It works for large regional and global companies in the development of important projects in the industry, utilities, and services sectors. It also performs custom-made solution designs to optimally and specifically cover customers' needs.

### About Lenel – [www.lenel.com](http://www.lenel.com)

Lenel Systems International, Inc. is a leading security software and turn-key systems provider for corporate and government markets. It focuses in the development of products that allow organizations to efficiently protect and manage their people, properties, and IT assets, and maximize their investments in infrastructure. The company has obtained several awards for the technological innovation, growth, leadership in the market, and customer satisfaction. Lenel is part of UTC Fire & Security, business unit of United Technologies Corp. (NYSE: UTX).

