Technology that creates a competitive advantage.

Fábio Perini Industrial, a member of the Korber Solutions Group, invests in security and cutting-edge access control as it seeks certification as an Authorized Economic Operator with the Brazilian Federal Revenue Service.

Organization:
Fábio Perini

Location:
Joinville, Brazil

Industry segment:
Industrial

Application:
Safety and security, access control

Axis partners:
Traders Service, Toptic, Senstar, Came, Commscope

Mission

Fábio Perini has a history of innovation in its role as a supplier of machinery and services to the tissue paper industry. The brand has registered more than 2,000 patents and continues to invest in technology. The Brazil-based operation identified a competitive advantage in achieving certification as an Authorized Economic Operator, a Brazilian Federal Revenue Service program that offers preferential treatment in foreign trade operations to companies that meet certain security requirements applied to the logistics chain, among other criteria. This would result in reduced red tape and greater agility in international operations. Among the requirements set out by the revenue service, the physical security of facilities is particularly note-worthy. The company's analog video monitoring system needed to be able to generate high-quality video. Meanwhile, its access control system needed to provide reliability in recording the movement of people and vehicles on the company's premises.

Solution

Traders Service, an Axis partner, has developed an integrated IP camera and access controller solution that can cover external areas, perimeters, factories and administrative areas, in addition to careful monitoring of vehicle and cargo access at the entry gates. The project involved two fundamental partnerships: access control through dual authentication using Accessus software from Toptic and VMS Symphony from Senstar. All the changes were made in conjunction with the expansion of the manufacturing and administrative area and included Traders' installation of new Cat-6 cabling from CommScope, another Axis partner.

Result

In addition to enhanced security of the perimeter up to the access points, the HR department also directly benefited, since the analog images generated by the previous system were not sharp enough. The merits of the project led Axis to grant Traders Service its award for Largest Access Control Project in 2019.

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Shared vehicle access

In order for Fábio Perini to apply for certification, all incoming and outgoing goods would need to be subject to double authentication access control. One of the challenges, however, was the fact that the company has its own fleet of vehicles that are shared by several drivers. The release of the vehicle needed to be linked to the release of each driver.

Traders presented a solution that involved a mix of highly flexible technologies. Access control was handled using a combination of UHF and a QR code for vehicles and bicycles. But RFID can also be combined with a QR code or UHF. "The combination depends more on the need for access than on the capacity of the access point," Paulo Rosa, co-founder of Toptic, explained.

The logic of this flexibility was also applied to the authentication of pedestrians at the entrance gate. When visitors sign in, the access control software uses a QR code to generate their credentials at the platform and can then print out their card. The software also allows this credential to be sent to the visitor via email. The software first records the visitor on the AXIS A1001 Network Door Controller, and they are then authenticated so the controller can allow them entry.

In other words, Toptic's Accessus software records the visitor, sends their credentials, copies the credentials to the Axis controllers, and then works with the controller to admit the visitor after authentication. It also makes it possible to query access records and issue reports and graphs of events.

Thanks to its flexibility, Accessus allows vehicles to be registered as shared and then check the link for the driver's access permissions at the time of access without having to re-register at each use. That is, drivers are pre-authorized, and the report indicates who was with the vehicle on a certain day and at a certain time.

Entrances and escape routes

Visitors will find a different model of Axis video intercoms depending on the entry gate. At the Avenida Santos Dumont entry gate, which is restricted to pedestrians and has no human surveillance, AXIS A8004-VE Network Door Station was chosen. This model, with its vandal protection, two-way communication, and HDTV image quality, supports communication between the outside of the plant and the main entrance. Thanks to the SIP protocol, the security team can use the IP phone in an integrated manner. The entry gate where pedestrians and vehicles enter uses an AXIS A8105-E Network Door Station, which is always connected to the AXIS A1001.

The Traders project used turnstiles and gates from Italian manufacturer Came, which is a leading company in integrated automation and control solutions. They were integrated with the AXIS A1001 controllers, which also support access to warehouse areas, data processing centers, and the entire administrative area. Altogether, 69 AXIS A1001 Network Door Controllers were installed. Because this model is an IP controller, it supports and powers Vault electromagnets and HID readers.

In the event of a fire, the alarm system sends an event notification to the Accessus software, and the system opens the escape route according to predefined locations using the Axis access controller I/O ports.

High resolution and robustness

To meet Fábio Perini's expectation of generating high-quality videos without interruption, the video monitoring system was transitioned to high-resolution Axis cameras managed by Symphony, an image management software created by Senstar. To prevent this high image quality from becoming a bottleneck, all the cameras feature Axis Zipstream technology, which reduces bandwidth and storage requirements without compromising image quality. In addition, the VMS only records when there is movement within the scene.

AXIS P3717-PLE Network Camera, for example, covers the parking area with a 360° field of view, generating 8MP images. This multidirectional camera uses a single IP address, which reduced the project's infrastructure costs. Thanks to WDR Forensics, it is now easier to view vehicle license plates and driver details from a distance, even when the headlights are facing the camera.

"The project has greatly improved control over the movement of people and vehicles," says Igor Kitzberger, head of the IT department at Fábio Perini.

For Traders Service, it was critical for this project to combine flexible technologies to meet the specific needs of such a large industrial facility as Fábio Perini. According to the company's director, Eder Warmling, "Using an all-IP solution, we were able to present the customer with the best project for monitoring its industrial production processes, monitoring the entry and exit of cars and trucks via license plates and drivers, as well as covering their large perimeter space and parking areas."

About Axis Communications

Axis enables a smarter and safer world by creating network solutions that provide insights for improving security and new ways of doing business. As the industry leader in network video, Axis offers products and services for video surveillance and analytics, access control, and audio systems. Axis has more than 3,500 dedicated employees in over 50 countries and collaborates with partners worldwide to deliver customer solutions. Axis was founded in 1984 and has its headquarters in Lund, Sweden.

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