

Case study



Boosting security at one of Colombia's first data centers to guarantee digital sovereignty

Avigilon Unity & Ilkari case study



Ilkari is a global sovereign infrastructure company, providing certified data center services and high-performance cloud infrastructure solutions. It helps businesses accelerate their digital transformation and ensure long-term resilience.

Headquartered in Dublin and growing rapidly, Ilkari owns and operates several certified data centers, including its site in the Tocancipá Free Trade Zone in Colombia.

To address potential physical security gaps, protect data, safeguard digital infrastructure and maintain regulatory compliance, the Tocancipá data center requires robust security and comprehensive operational visibility.

Customer Profile

Ilkari, Colombia

Industry

Data centers

Solutions



Avigilon Unity Video VMS



Avigilon dome cameras
Avigilon bullet cameras
Avigilon fisheye cameras



AI-powered video analytics



Avigilon Unity Access with HID reader and ViRDI biometrics integration



Motorola Solutions DTR720 Series radios

Benefits

- With the Avigilon Unity solution, Ilkari can manage its physical security on a single, centralized, easy-to-manage platform. This delivers improved efficiency, cost savings and faster incident response.
- Security operators can efficiently observe staff and contractor movements and check that safety protocols are being followed.
- The robust, cybersecure Unity platform helps Ilkari to meet its physical and logical security system compliance requirements.



Challenges

Holistic security overview for rapid response

For its Tocancipá data center, Ilkari sought a single-pane-of-glass view of its security systems. This would enable fast detection and response to unauthorized access, incidents and alerts.

This integrated solution would help ensure that any door tampering automatically triggers real-time camera alarms, allowing for rapid response. This was particularly important during its continued expansion, with numerous contractors on-site.

A centralized platform would also enhance efficiency, streamlining administration and maintenance. Not only does this lower costs, but it simplifies the center's systems to align with internal and customer protocol policies.

Connected systems for security compliance

Ilkari also needed to comply with international incident response and security regulations. Therefore, it required a high-performance, connected system with robust user authentication, data protection, encryption and a secure operating system architecture.

In the case of a cyberattack, Ilkari also needed to be able to safeguard access to cameras and other security systems.





Solutions

Avigilon Unity

Ilkari selected Motorola Solutions' Avigilon Unity on-premise suite for its Tocancipá data center.

Unity is a fully integrated and scalable physical security suite that includes cameras, video management software (VMS), video analytics, video infrastructure, access control and more.

The data center implemented the following technologies:

- Avigilon Unity Video VMS
- 100+ dome, bullet and fisheye cameras
- AI-powered video analytics
- Avigilon Unity Access with HID reader and ViRDI biometrics integration
- Motorola Solutions DTR720 Series radios

Ilkari utilizes Unusual Activity Detection analytics to help detect threats in sensitive areas, such as restricted zones and perimeters, as well as for patrol validation.



Avigilon Unity is one of the most robust, secure and user-friendly platforms for security systems. It allows us to centralize all our physical security operations onto a single platform for improved visibility, efficiency and proactive threat detection.

Claudia Liñan, Technical Operations Centre Manager at Ilkari

The organization also has Unity Access integrated with HID readers and ViRDI biometric readers deployed on 35 of its gates, from main entrances to restricted access points in the data center.

Moreover, security area leaders, controllers and the operations team communicate and coordinate securely via the DTR720 digital two-way radios.



Benefits

Strong site security with a cybersecure solution

Ilkari has centralized its physical security systems on a single platform with the Avigilon Unity solution, enhancing its situational awareness of the data center and allowing it to quickly identify potential threats.

The AI-powered Avigilon cameras enable Ilkari to enhance site coverage, observe external personnel entering the site and verify that they are performing the function for which they were hired. They also capture incidents and accidents for health and safety, insurance and training purposes. This footage can be retrieved via the Unity Video VMS.

The data center can also help ensure its teams have appropriate access rights with the Unity Access solution, enabling personnel to perform their duties efficiently and keep to project timelines. The on-premise access control system also helps prevent unauthorized personnel from gaining entry into the data center.

Its integration with industry-leading door readers and biometric authentication enables the data center to help protect its primary entry points and its most sensitive areas. This provides Ilkari the layered security needed to help safeguard critical infrastructure and maintain uninterrupted operations.

Meanwhile, the Unity platform helps Ilkari comply with international incident response and security regulations by safeguarding against cyberattacks. The solution employs a multi-layered strategy, incorporating a secure platform design, robust authentication protocols, ongoing vulnerability management and the integration of physical and cybersecurity systems.

Cost savings and value-added services

Having a comprehensive and centralized physical security solution is easier to manage and more cost-effective in terms of infrastructure, labor hours and maintenance for Ilkari.

Moreover, the Unity Video VMS offers automated alarms on its Focus of Attention interface, customizable views and real-time alerts. This provides operators with the tools they need to work productively and efficiently, enabling them to initiate fast, informed decisions in critical moments.

As the data center relies on multiple security cameras, it generates a substantial amount of video to manage, raising concerns about bandwidth and latency. Unity cameras help solve this by intelligently delivering high-resolution detail where activity is detected and optimizing images in areas with no movement. This allows Ilkari to reduce bandwidth and storage demands while still capturing high-quality footage when it matters most.



Security is built into every layer of our facility's design and operation. The site is protected by 24/7 on-site security personnel, three-factor biometric access controls and continuous video security coverage across all critical zones. The partnership with Avigilon has been key to achieving our required security levels.

Claudia Liñan, Technical Operations Centre Manager at Ilkari



Conclusion

Ilkari successfully implemented the Avigilon Unity solution at its Colombian data center, centralizing its physical security on a cybersecure platform. As a result, it has enhanced its situational awareness, helped secure the facility and reduced operational costs.

The success of this Unity deployment at its Tocancipá data center is paving the way for future expansion. Ilkari is looking to deploy Motorola Solutions' technologies across its international sites, including radios and access control. It is also looking to invest in video security across its global sites.



If we had not implemented such a robust security system, we would have been exposed to exceptionally costly attacks, information theft and a complete compromise of the confidentiality of our clients.

Claudia Liñan, Technical Operations Centre Manager at Ilkari



To learn more, visit: www.avigilon.com



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