Incheon Airport

Securing the Gateway to Korea: How SecureKi Safeguards Incheon Airport's Digital Infrastructure and CCTV Systems

> Deploying SecureKi PAM, including its robust management of our CCTV appliances, has significantly strengthened our security infrastructure. Automation has dramatically cut our manual workload, improved efficiency, and drastically reduced the risk of unauthorized access. It's an invaluable step forward in our operational security and compliance efforts.

Yang Myeong-Seok

Incheon International Airport Operational Information Team Manager

The Company

Incheon International Airport is the largest airport in South Korea. It is the primary airport serving the Seoul Capital Area and one of the largest and busiest airports in the world. As of 2021, the airport has been rated by Skytrax as the fourth best airport in the world.

The Challenges

Incheon International Airport manages numerous business applications, web services, custom software solutions, and a sophisticated network of security systems, including extensive CCTV appliances. Such diverse applications frequently require seamless access to databases, servers, and other systems to facilitate critical communications and data management. A significant challenge faced by Incheon Airport was securely managing credentials embedded within configuration files and scripts, including those controlling essential CCTV infrastructure. These credentials were often left unchanged, posing substantial risks of unauthorized access and potential security breaches.

Incheon Airport's challenges include:

1. Difficulty and inefficiency managing passwords manually for multiple internal systems and CCTV appliances.

2. Risk exposure from hard-coded passwords stored insecurely across diverse application environments and security systems. Methods of managing applications in countless internal and external services are also inconsistent according to different operating environments, making hard-coded password management more difficult.

3. Necessity for automated, secure management to comply with strict regulatory mandates and security protocols.

SecureKi's Comprehensive Solution for CCTV Appliances and PAM

To tackle these challenges, Incheon International Airport implemented SecureKi's Privileged Access Management (PAM) solution, extending its comprehensive capabilities to manage and secure credentials specifically for CCTV appliances as well as internal business-critical applications.

SecureKi PAM provides an integrated and automated credential management solution designed to manage, rotate, and secure passwords across complex environments—including critical CCTV surveillance equipment. It replaces risky hard-coded passwords with dynamic, periodically changed credentials, significantly enhancing security across all network-connected appliances.

How SecureKi PAM Covers CCTV Appliances

1 **Automating Credential Rotation**

SecureKi PAM continuously and automatically updates passwords and credentials associated with CCTV appliances, ensuring they are not left unchanged for extended periods. Regular credential rotation significantly reduces the potential risk of unauthorized access and minimizes vulnerabilities caused by credential theft or exposure.

2 **Centralized Credential Management**

Securely storing all CCTV-related credentials within a single, unified repository. This approach eliminates fragmented practices, significantly reduces administrative overhead, and ensures that credential handling remains consistent and secure across the airport's expansive surveillance network.

3 **Enhanced Accountability and Auditing**

With comprehensive logging, detailed session recordings, and real-time activity reports, Incheon Airport gains full visibility into credential usage, clearly identifying who accessed the CCTV systems, along with precise timestamps and actions performed. This level of transparency not only enhances accountability among personnel but also streamlines compliance audits and strengthens incident response capabilities.

4 **Minimized Privilege Exposure**

SecureKi minimizes risks by enforcing strict privilege controls, ensuring users receive only the necessary access required for their roles. By adopting the principle of least privilege, SecureKi effectively reduces the risk of accidental or intentional misuse of sensitive CCTV systems, safeguarding against potential security breaches and operational disruptions.

5 **Integrated Compliance Management**

SecureKi seamlessly integrates compliance management capabilities into its PAM solution, empowering Incheon Airport to adhere to stringent governmental and industry regulations effortlessly. Automated compliance checks, secure periodic credential resets, and documented audit trails simplify compliance processes, ensuring that Incheon Airport's CCTV infrastructure consistently meets and surpasses regulatory standards.

Benefits Realized by Incheon Airport

The implementation of SecureKi PAM has brought measurable improvements to Incheon Airport's security operations, particularly in how credentials are managed across both business-critical systems and surveillance infrastructure.

One of the most immediate gains has been the enhancement of the airport's overall security posture. By eliminating hard-coded passwords and automating credential changes, Incheon Airport significantly reduced its vulnerability to credential-based attacks. This is especially critical in high-risk environments like international airports, where even a small breach can have far-reaching consequences.

Operational efficiency has also seen a major uplift. Through automated credential rotation and system restarts, SecureKi PAM has eliminated the need for time-consuming manual tasks, reducing administrative workload by approximately 80%. This freed up IT teams to focus on higher-value initiatives while minimizing the risk of human error in password handling.

From a compliance perspective, the airport is now better positioned to meet the strict regulatory requirements governing critical infrastructure. SecureKi's detailed audit trails and session recordings make it easy to demonstrate compliance during inspections or audits, helping Incheon Airport stay ahead of ever-evolving security standards.

Importantly, SecureKi's approach also improves visibility and accountability within the organization. By tracking all privileged access activity—even on shared accounts—the solution ensures every action is attributable. This level of transparency deters misuse and fosters a culture of responsibility among administrators and operators.

Ultimately, by unifying access control across its infrastructure, Incheon Airport has achieved a more resilient, compliant, and efficient environment—one that not only protects its critical systems but also reinforces public trust in its operations.

About SecureKi

SecureKi is a leading cybersecurity company specializing in securing and managing credentials. Our solutions empower customers to prevent targeted attacks, mitigate insider threats, achieve compliance, enhance operations, and secure their hybrid enterprises.

Trusted for our innovative and forward-thinking security technologies, SecureKi designs and develops solutions that enable organizations to manage their enterprise passwords effectively and automatically. Our cutting-edge technology has revolutionized enterprise password management, introducing a new paradigm in credential security.

With our automated password policy workflow, SecureKi eliminates the tedious and time-consuming task of manually changing passwords, significantly reducing administrative overhead. As a future-oriented company built on trust and credibility, our mission is to help customers secure and efficiently manage their enterprise passwords. SecureKi — Where Identity Meets Security.
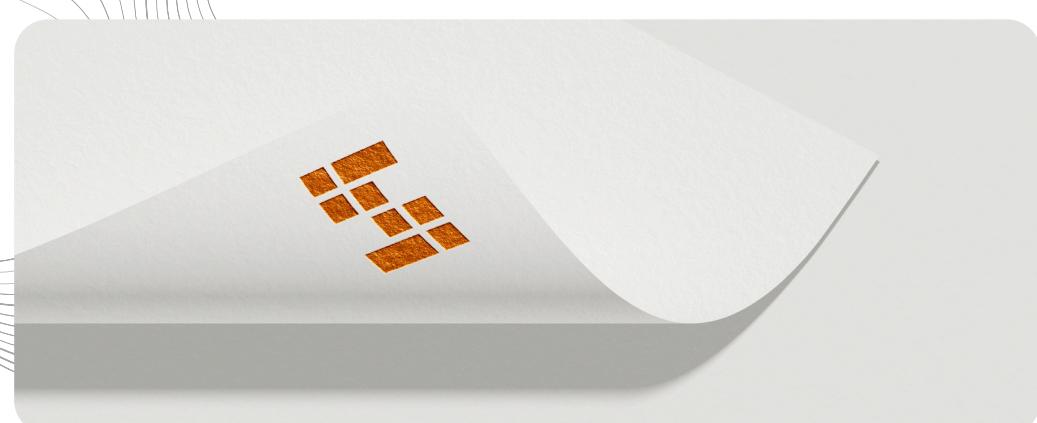
SecureKi Sdn Bhd (1143453-U)

C-13-09, Sunway Nexis, No 1, Jalan PJU 5/1, Kota Damansara, 47810 Petaling Jaya, Selangor.

Tel: +603-7652 1099

Sales@secureki.com

www.secureki.com