

Integrated Time & Attendance and Access Control Solution the Macau Gaming Inspection and Coordination Bureau

Industry

The Macau Gaming Inspection

Location

Macao SAR

Solution

Time Attendance & Access Control

About GICB

The Macau Gaming Inspection and Coordination Bureau (GICB) is the regulatory authority responsible for overseeing the gaming industry in Macau. Established to ensure the integrity, fairness, and transparency of gaming operations, the GICB plays a critical role in safeguarding players' rights and promoting responsible gaming practices. It also focuses on preventing gaming-related crimes and maintaining social stability within the region. As a key public institution, the GICB works to enhance the overall gaming environment, contributing significantly to Macau's economy, which heavily relies on tourism and the gaming sector.

Project Requirements

Effective Staff Identity Authentication

The gaming industry is one of the primary economic sectors in Macau, serving as a major pillar of the economy, promoting tourism and employment. The Macau Gaming Inspection and Coordination Bureau (GICB) is responsible for regulating the gaming industry, ensuring fairness and transparency, protecting players' rights, preventing gaming-related crimes, promoting responsible gaming behavior, and maintaining social stability. As an important public institution, the GICB aims to improve the effectiveness of its identity authentication processes for the following reasons:



Improving Human Resource Management Efficiency

The GICB originally used staff cards for identification and attendance, relying solely on card swiping, which has several drawbacks. The most significant issue for human resource management is the inability to confirm whether the cardholder is the actual owner, resulting in a loophole where staffs can clock in for each other.

Enhancing Access Control Security

In addition to improving human resource efficiency, ensuring the security of sensitive documents and data to prevent leaks or unauthorized access is also crucial for public management. Card swiping cannot verify the true identity of the cardholder; it relies on security personnel for identification, which is not a reliable method. The GICB seeks a more accurate identity authentication system to eliminate losses caused by unauthorized intrusions.

Challenges

Existing Human Resource Management System

The GICB already has a human resource management system in place for managing attendance records, payroll calculations, performance evaluations, etc. Any changes to access control or attendance management that require abandoning the existing system would not only be cost-ineffective but also burden human resource personnel with the need to adapt to a new system.

Integrating a standalone attendance system without replacing the current human resource system could lead to data integration challenges. Since payroll calculations and performance evaluations rely on attendance records, human resource staff may have to frequently transfer data manually between different systems, severely impacting efficiency.

Impact of Enhanced Access Control on Daily Operations

Strengthening access control would require staffs to go through additional procedures for entering or leaving the premises. With over 3,000 staffs, overly complicated steps could cause delays during peak hours.

Solution

Attendance and Access Control Integration with Existing Human Resources Management System

ZKTeco deployed a solution with SpeedFace V5L Biometrics Authentication Standalone Terminals and ZKBioTime Comprehensive Security Management Platform Software for integrated Time & Attendance and Access Control Management. ZKTeco installed SpeedFace V5L biometric access control and attendance management terminals at the various entrances of the GICB oce building, connecting them to the ZKBioTime platform for access and attendance management.



Access Control

For access control, all staffs are registered with their personal information, and their facial authentication data on ZKBioTime in advance. While their staff cards are still retained, staffs will only need to use facial authentication on the SpeedFace V5L when entering or exiting the building.

Time & Attendance

For attendance management, as staffs pass through the facial authentication access control, the SpeedFace V5L delivers entry and exit data to ZKBioTime for attendance records, eliminating the need for additional punch in and punch out.

All settings related to access control and attendance can be managed through the ZKBioTime.

ZKTeco also integrated the ZKBioTime with the GICB's human resource management system via API. which allows the GICB to retain its existing system for human resource management. After integration, ZKBioTime will automatically deliver attendance data received from SpeedFace V5L to the GICB's human resource management system for payroll calculations, performance assessment, and other human resources related functions.

Features and Benefits

Convenience and Efficiency: Combined Access Control and Attendance

All SpeedFace V5L terminals installed at entrances connect to the ZKBioTime comprehensive security management platform, which is equipped with multiple modules, including access and time & attendance management, enabling staffs to complete both access and attendance taking through facial authentication, significantly improving operational efficiency as they no longer need to punch in separately after entering the building.

Powerful Facial Authentication for Ultimate Identity Authentication Precision

Accuracy

The SpeedFace V5L is a standalone terminal with exceptional facial authentication capabilities. Its advanced algorithm ensures precise identification with anti-spoofing features, effectively preventing various forms of impersonation, thus minimizing manual errors by security personnel.

Speed

Using facial authentication eliminates the need for staffs to carry physical ID cards, saving time. The SpeedFace V5L can authenticate in under a second, enhancing entry and exit speeds.

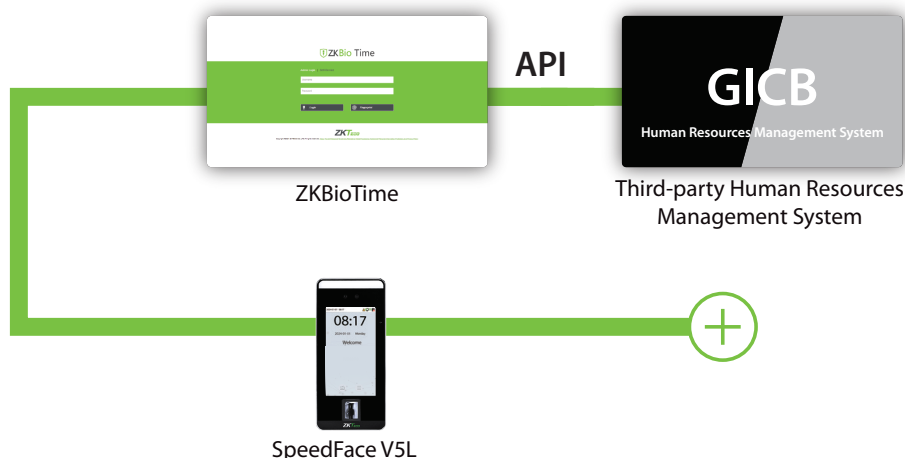
Convenience

Staffs no longer need to worry about forgetting their staff cards, reducing the workload on human resource staff who would otherwise have to manage manual identification and registration.

Flexibility

ZKBioTime is a powerful security management software that allows management to access and control the system remotely. All SpeedFace V5L machines are connected to ZKBioTime, enabling real-time monitoring of access and attendance status.

The various modules of ZKBioTime offer robust and flexible configuration options, allowing administrators to set access control based on time, area, group, or job level, and to combine different access methods to meet security needs. The attendance module also provides features like automatic scheduling, making attendance management easier. Additionally, administrators can customize attendance report formats and export them automatically as needed.



Integration with Existing Systems Maximizing Cost Efficiency

One of the main advantages of ZKTeco's products is their strong integration capabilities with third-party systems. The ZKBioTime comprehensive security management platform integrates with the GICB's human resource management system via API, allowing for data synchronization without needing to replace the existing system, thus saving costs and enabling human resources personnel to continue using familiar systems for increased operational efficiency.

System Integration Achieving Powerful Functionality

After API integration, ZKBioTime synchronizes data with the GICB's human resource management system. Managers will no longer need to manually transfer data from ZKBioTime to the HR system; instead, ZKBioTime automatically imports relevant attendance data for performance evaluations, payroll calculations, workforce analytics, recruitment, etc., reducing human resources workload and the potential for human error.

Magnificent Scalability

Another significant advantage of ZKTeco products is their strong scalability. The ZKBioTime comprehensive security platform includes modules for various functions, such as access control, attendance, video surveillance, and elevator control, with a basic configuration supporting up to 500 devices on a single server (more can be customized). This means that additional access control or other functionalities can be added in the future without the need for a complete reconfiguration.

Configurations

System	Model	Type
Comprehensive	ZKBioTime	Comprehensive Security Management Software
Time & Attendance	SpeedFace V5L	Hybrid Biometrics Standalone Terminal

