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CASE STUDY

BNI BANK
Madagascar

BNI MADAGASCAR

The Facts

- **Project name:** Security and compliance system implementation for BNI Bank

- **Date of completion:** Q3, 2024

- **Building description:** bank headquarters with multiple service halls, each requiring dual-level interlock and multi-person presence control with timers

- **Access control type:** HID Global hardware, including new-generation HID AERO X1100 controllers, X100 door modules and mobile ID-compatible Signo 20 readers, operated by CredoID access control software

- **Integration set:** CredoID v4 access control software with custom workflow logic scripting and alert functionality

- **Integration partner:** Technoalarme, Madagascar

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The Challenge

BNI MADAGASCAR, one of the leading financial institutions in Madagascar, is renowned for its extensive banking services and commitment to innovation. With a robust presence across the country, the bank serves a diverse clientele, including individuals, businesses, and corporate entities.

As a financial institution, BNI MADAGASCAR has significant obligations to ensure security and regulatory compliance. This necessitated a highly tailored access control solution, achievable only through the advanced capabilities of CredoID software.

The bank operates secure rooms equipped with separate airlock areas—enclosed spaces with two doors designed to support secure banking operations. Personnel can access the main room through standard doors and exit the same way or through the enclosed airlock.

The system also required an alert mechanism, including alarms and notifications, to address potential breaches or irregularities, as well as comprehensive traceability to support investigations in case of security violations or incidents.

The challenge stemmed from the following project requirements:

- **Enable a pre-screening area** with additional doors, totaling four doors per room
- **Build double enclosed airlock areas**, with four doors, designed for different entrance scenarios
- **Operate airlock under a strict single-person access principle**, allowing only one individual to enter at a time
- **The operations room requires the "four-eyes" principle**, limiting single-person presence to a minimal time
- **Airlock and "four-eyes" principle require adjustable**, precision timing to operate correctly

The Solution

To address customer's access control requirements, the CredoID software's advanced scripting engine was employed. This feature enabled the creation of custom workflows, notifications, and system behaviors tailored to BNI MADAGASCAR's needs.

Four Eyes or Nothing Logic

To address function timing and additional custom logic, CredoID script was developed to individually monitor each secure area and enforce the presence of at least two individuals entering the main operations room within a specific time threshold, with automated alerts integrated to detect violations.

Double Airlock Area

A two-way, double airlock was set up on HID Aero controllers to ensure different entrance paths for employees and visitors.

Anti-Pass back rule

To prevent reuse of credentials and unauthorized reentry without proper exit validation, Anti-pass back feature was used on external doors to ensure following of required security protocol.

Custom Alerts and Notifications

The system was configured to generate detailed alerts in the CredoID software and send messages to operators when presence rules were violated or time thresholds were exceeded, enabling quick responses to security breaches.

The Result

The deployment by the Technoalarme team successfully delivered precision management of user activity monitoring, real-time operator notifications, and full compliance with BNI MADAGASCAR's security requirements. Thanks to CredoID's custom scripting engine, the bank achieved a secure and efficient access control system tailored to its needs.

Key outcomes included:

- **Seamless enforcement** of two or more-person presence rules, ensuring compliance across all operating zones.
- **Effective single-person access control** in airlock areas, maintaining strict entry protocols.
- **Implemented anti-pass back measures**, preventing credential misuse.
- **Improved operator experience** through intuitive dashboards and real-time notifications.
- **A redundant and fault-tolerant system**, ensuring uninterrupted security.