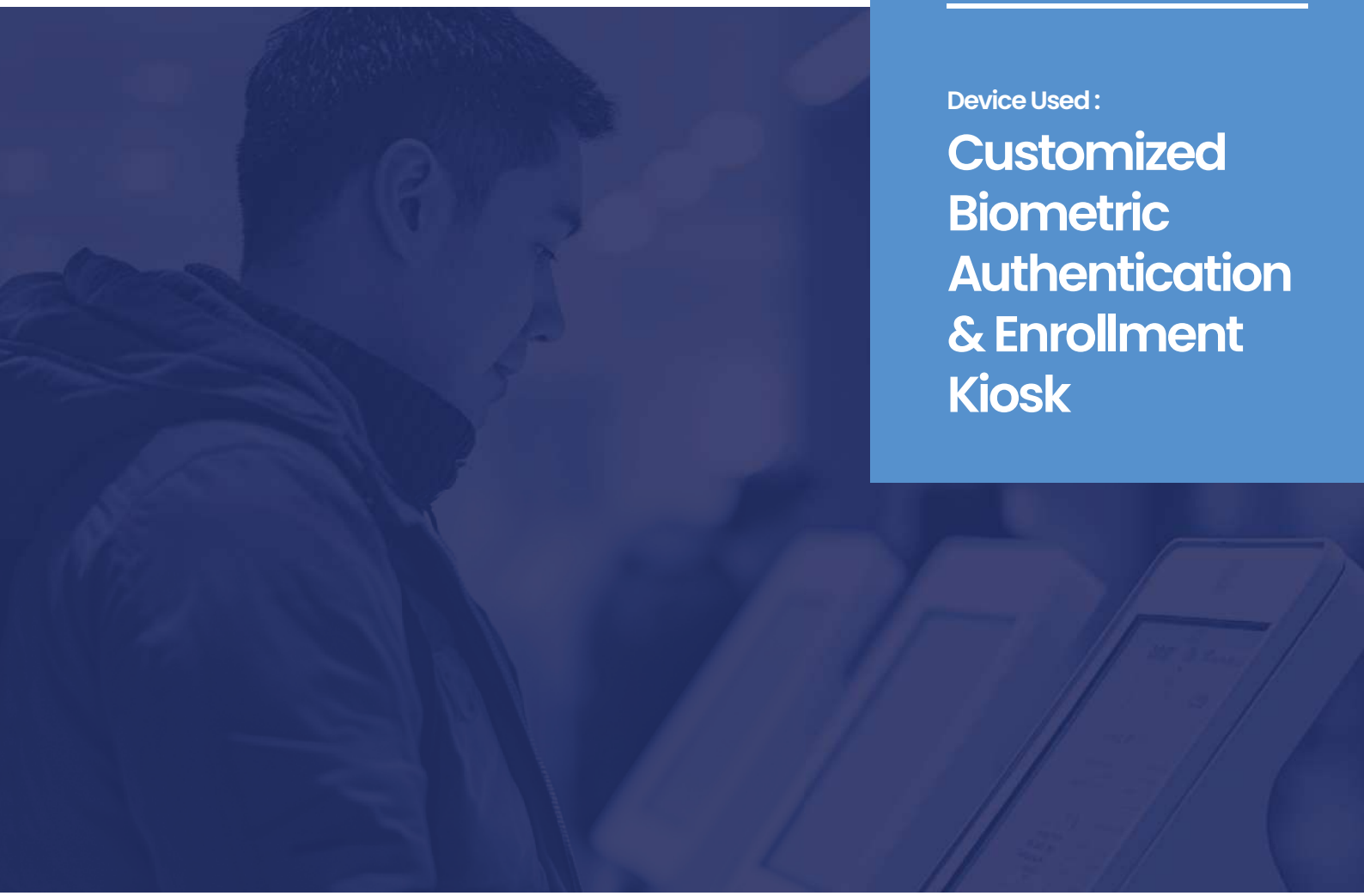
MANTRA | Identity Devices and Systems

Case Study

Empowering Cross-Border Migration Management with Enrollment Kiosk

Country : Africa



Device Used :

Customized Biometric Authentication & Enrollment Kiosk

Introduction

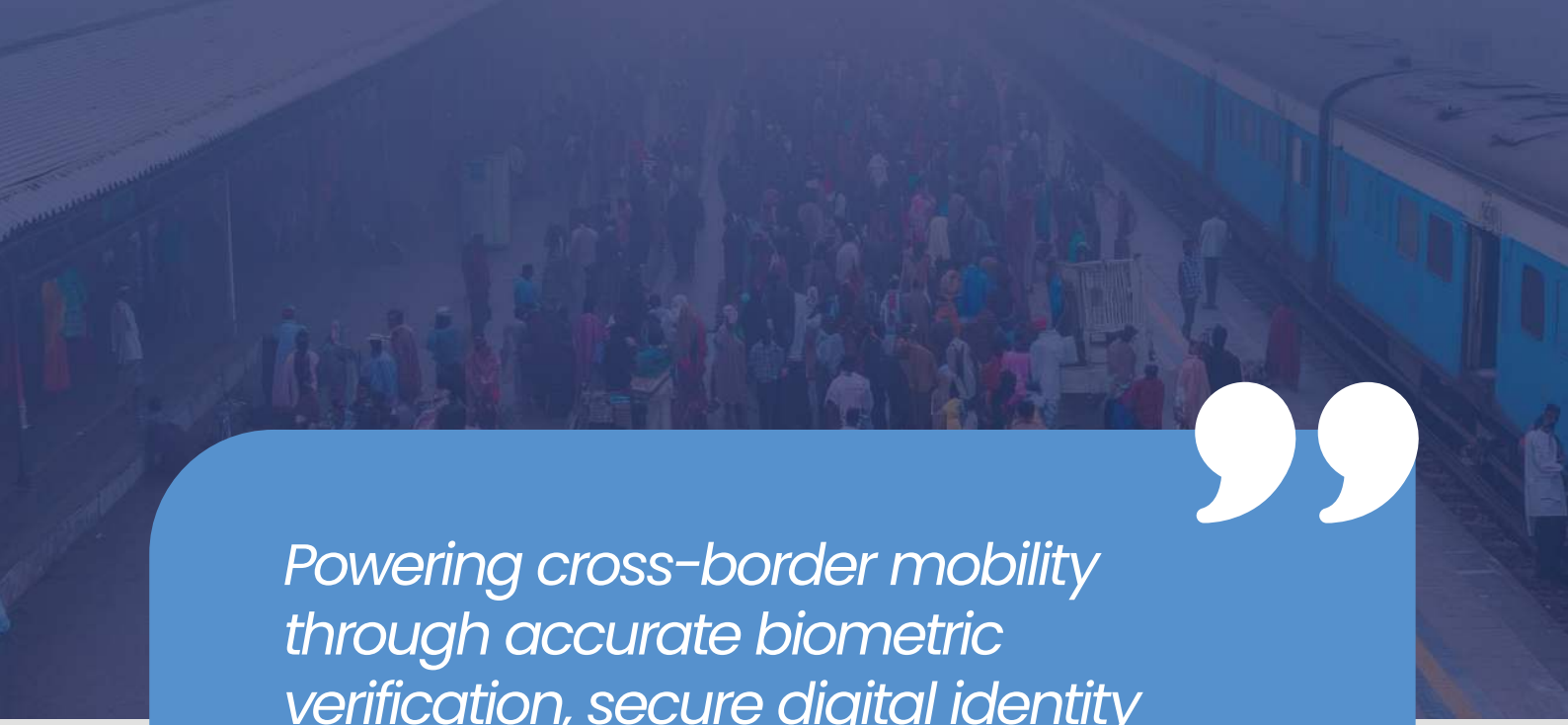
An international organization responsible for facilitating safe and secure cross-border movement across multiple African countries sought to modernize its border management operations. The objective was to establish a secure and efficient system for traveller registration, permit issuance, and identity verification. To support growing cross-border traveller volumes, the organization required a self-service kiosk that enabled biometric enrollment and authentication, and ensured data accuracy, security, and reliable performance in challenging environmental conditions.



The Challenge

Securing Cross-Border Identity Management

To support secure migration operations, the organization required a reliable self service kiosk for QR code-based identity issuance, ISO/IEC-compliant biometric enrolment, verification, maintaining data integrity across border checkpoints in challenging environments.



Powering cross-border mobility through accurate biometric verification, secure digital identity management, and efficient traveller processing workflows.

Mantra's Solution

Deploying a Customized Border Control Kiosk

To address these requirements, Mantra delivered a customized biometric authentication and enrollment kiosk that includes:

- Rugged, weather-resistant metal enclosure for outdoor use.
- IP65-rated multi-touch display.
- Industrial Windows computing platform with flexible connectivity.
- ISO/IEC 19794-2 & 19794-4 compliant fingerprint scanner.
- Binocular face camera with liveness detection.
- Smart document reader for IDs and passports.
- APIs and SDKs for seamless application integration.

Border Management Kiosk

Enabling Secure & Efficient Cross-Border Movement



Interactive Traveller Enrollment Platform

- Multi-modal Identity Verification
- Digital Permit Processing
- Seamless System Integration

Advanced Border Control Terminal

- Built for Harsh Environments
- Fast Traveller Processing
- Scalable Deployment Architecture

Key Outcomes

Strengthening Border Management & Traveller Verification

The deployment of Mantra's Kiosk yielded several significant outcomes:

Streamlined Border Operations

The kiosks simplified traveller registration, permit issuance, and identity verification processes, enabling faster movement across border checkpoints and reducing processing delays.

Enhanced Identity Verification

The integrated biometric authentication system enabled accurate traveller verification while minimizing the risk of fraud, duplication, and identity impersonation.

Successful Project Expansion

Following the successful implementation and installation during the first phase, the organization proceeded with a bulk order of eight additional kiosk units for the next phase of deployment.



Global Standards Compliance

The solution enabled ISO/IEC-compliant biometric capture, ensuring interoperability, compliance, and scalability.



Rugged & Reliable Deployment

The kiosks delivered reliable performance in challenging environments, including dust, humidity, and temperature fluctuations.



Scalable & Future-Ready Infrastructure

Designed for flexibility, the kiosk platform supports future enhancements as border management requirements evolve.



Get in Touch

+91 99988 28573

identitysystems.connect@mantratec.com

www.identitysystems.mantratec.com

B203, Shapath Hexa,
Opp. Gujarat High Court,
S.G. Highway, Sola,
Ahmedabad - 380060,
Gujarat, India

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