

University (l'ISSEG) Attendance Management in Guinea

Providing centralized management of student data in real time



QUICK FACTS

Challenges:

- To replace the outdated manual registration and attendance system
- To build a solid student database

Solution:

- Aratek BM7500 biometric tablet
- New registration app

Benefits:

- Saved time and increased productivity
- Improved accuracy and Increased security
- Easy management

Overview:

In 2019, Guinea's Ministry of Higher Education and Scientific Research (MESRS Guinea) tapped ARATEK and our partner to build an advanced registration, identity management and attendance monitoring system to be deployed in a large state-owned university. The project also required the digitization of all documentation and procedures.

Challenges:

l'ISSEG (Institut Supérieur des Sciences de l'Éducation de Guinée) is a university located in the city of Conakry. The registration of new students in the university had always been a slow process, with students tediously filling out paper forms to which they attach their photographs. Similarly, attendance monitoring was performed by university authorities by manually verifying students' identities against their national ID card, leaving the process prone to human errors and identity fraud.

In pursuit of its mandate to design, monitor and evaluate Guinea's higher education and research policy, MESRS Guinea sought to replace l'ISSEG's outdated manual system with a secure and efficient registration and attendance management system.

It wanted the system to be robust enough to allow end-to-end registration of students by the thousands and should be able to capture photographs, encode personal data, and provide digital signature and fingerprint while preventing duplication. Likewise, the project should result in the creation of a solid student database.

Solution:

MESRS determined that a biometric attendance system would help improve efficiency and prevent identity fraud in l'ISSEG for which the Aratek BM7500 biometric tablet was deemed to be perfect. With sophisticated features like fingerprint sensor, NFC reader and 2D barcode, Aratek BM7500 works seamlessly with a new registration app developed by the partner to enable school authorities to easily capture photos and enroll fingerprint data.



The Aratek BM7500 also enables l'ISSEG to easily and accurately track the student attendance by reading the 2D barcode on the national ID card, then extracting and matching student's fingerprint while also displaying the photo on the device in real-time, allowing for double authentication.

Key Benefits:

The new biometric attendance system with the Aratek BM7500 tablet has significantly improved l'ISSEG's attendance management by providing the following benefits:



Saved time and increased productivity

The new customized biometric attendance system with Aratek BM7500 allows university authorities to easily enroll and verify more than 10,000 students for exam and class attendance records, saving a lot time and making day-to-day operations more efficient.



Improved accuracy and Increased security

The advanced fingerprint matching and 2D barcode scanning powered by Aratek BM7500 helps l'ISSEG authorities perform highly accurate identification and authentication functions critical in preventing identity fraud. As a result, students are safer and more secure while inside the campus.



Easy management

With the advanced new biometric attendance system and the digitized student database, the processes of student registration and attendance-keeping in l'ISSEG is now centrally managed and monitored. The much-improved management of information also allows the university to provide crucial data to MESRS Guinea which can prove crucial in helping the agency craft the government's policy on higher education and research policy.

