

Article - Access Security For Mobile Microbiology Lab

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STid selected as an innovative manufacturer by IMeBIO for its multifunctional access control solution for end-to-end security.

IMeBIO is a world leading designer, manufacture and distributor of innovative mobile labs, in particular BSL2 and BSL3 biosafety labs designed for all sectors needing to study and analyze pathogens, whether associated with health risks, pandemics or bioterrorism. Security, therefore, needs to be optimal. These confined spaces need to be quick to set up, anywhere in the world, especially in countries where virulent strains can appear.

IMeBIO has to implement access control, not just for the end-to-end security of its mobile microbiology labs, but also in order to protect community health by limiting infection risks. Users need independent security management at all times, anywhere in the world. They need to be able to respond instantly to all critical situations in order to avoid health disasters. As well as the question of security, IMeBIO needs many applications to be integrated within the access reader, such as a key information display, in order to reduce the cost of the solution.

The STid solution with its Architect® touch-screen RFID readers, SSCP communication protocol and silicone wristbands was recently selected by IMeBIO to secure their mobile labs.

The 13.56 MHz MIFARE® Architect® reader with display offers best in class data security systems, using recognized public security algorithms that comply with the recommendations of the French Network and Information Security Agency (ANSSI).

In order to guarantee end-to-end authentication, the STid SSCP communication protocol has been integrated into Architect® readers to ensure security between the reader and management system.



"Each mobile laboratory needs around ten readers to secure access to these sensitive areas and protect the community from infection risks," says Jean-François Jung, Director of IMeBIO.

Multiple functions in one reader

The solution developed for IMeBIO is much more than an RFID reader for identifying authorized personnel. The touch screen provides two key functions:

- Display: checks whether safety conditions have been complied with by displaying the pressure levels in the airlocks and laboratories, and checks for open doors. It can also display the company logo to promote brand image.

- Touch screen: a button can be added to the screen to act as a doorbell or door release button. It can also display a keypad used for authentication or for activating auxiliary functions such as alarms.

IMeBIO also selected the RFID Architect® touch-screen reader for its indicator lights and audio signals that manage user information in real time. The buzzer acts as an alarm if a door has been open for more than 10 seconds, alerting staff to a possible security breach while multicolored LEDs also give users visual information, notifying them of access authorization, an open door or a decontamination operation that is underway, etc.

Independence and control

The STid SSCP solution uses approved public security algorithms. This open software is compatible with all access control systems. STid uses tools that enables them to manage mobile lab security independently. IMeBIO needs to be able to respond quickly for emergency action in difficult situations. The company is not dependent on STid to upgrade its system and security settings in response to real-time needs.

Results

By choosing the STid access solution, IMeBIO ensures staff and community protection without compromising on correct mobile lab security procedures, throughout the world.

"The STid solution helps us secure our laboratories and protect human lives, while offering other benefits. The multifunctional readers considerably reduce integration, cabling and installation costs and save space. We have halved the number of machines we use and saved on 140 cables per laboratory," concludes Jean-François Jung.

Architect® readers and the SSCP communication protocol offer the highest levels of security and provide numerous possibilities for integrating auxiliary functions, such as a key information display, buttons, keypads, and indicator lights and audio signals, etc.

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