

Case study: 12 de Octubre Hospital



12 de Octubre University Hospital

Digital security for one of the largest hospital complexes in Spain



To move towards a 100% digital hospital model, the hospital opted for **TESA ASSA ABLOY's SMARTair®** as the centralised platform for intelligent access management across the entire hospital complex.

'The implementation of SMARTair® has been key to our progress towards a safer, more efficient and fully digital hospital. It allows us to manage access centrally, flexibly and in real time, which is essential in a highly complex healthcare environment such as the 12 de Octubre Hospital.'

Ignacio Paños, Security Director
12 de Octubre Hospital



Project Summary

Project: 12 de Octubre Hospital

Sector: Sanitary

Location: Madrid, España.

Devices installed:

Over 1,000 SMARTair i-max electronic door handles with wireless technology, the ePED solution for electrically controlled escape routes, ASSA ABLOY DEC door closers (over 2,000 units), high-end TOP panic bars (1,000 units), electromechanical solutions such as electric strike plates or electromagnetic locks, mechanical master keying for over 1,000 cylinders, mechanical security locks, fire-rated locks and fittings such as handles and pull handles.

Access control technology: Over 20,000 RFID cards

Year of installation: 2025

100% digital hospital, 24/7 critical environment

Key challenges and requirements

Managing access in a large-scale hospital environment pre-sents an ongoing challenge:

- Thousands of staff, patients and visitors constantly on the move
Critical areas with varying security levels
- The need to eliminate manual key management and duplication
- 24/7 operation without disrupting patient care
Compliance with regulations, audits and security and data protection standards

The hospital needed a flexible, scalable solution that was fully integrated with its digitalisation strategy.

Solution

SMARTair® – Control de accesos electrónico inteligente

The 12 de Octubre University Hospital implemented SMARTair® as an access control system to completely replace mechanical locks and centralise security management.

The solution enables:

- Access via **secure electronic credentials** (RFID cards, mobile phones or digital keys)
- **Centralised, remote management** of access permissions in real time
- Immediate assignment, modification or revocation of access rights based on user profiles, schedules and zones
- **Complete logging and traceability** of every access event Integration with video surveillance, alarms and corporate databases
- **Wireless installation requiring no building work**, without disrupting hospital operations
- SMARTair® thus became a key pillar of the hospital's digital transformation process.

Results

The implementation of SMARTair® has led to a significant improvement in both security and operational efficiency:

- Complete elimination of mechanical keys and their associated risks
- Effective separation of staff, patient and visitor traffic
Greater control over restricted-access areas
- Drastic reduction in response times to staff changes or incidents
- Real-time audits and regulatory compliance
- Improved perceived security for staff and users

Furthermore, the system **has enabled the analysis of access** data, identifying critical points and optimising the hospital's day-to-day management.

Integration, sustainability and scalability

SMARTair® integrates seamlessly into the hospital's overall security policy:

- Interoperability with video surveillance systems, alarm systems and IT infrastructure
- Integration with HR systems for managing staff onboarding and offboarding
- Battery-powered operation, reducing energy consumption.
- Reduced need for on-site visits and maintenance.

All of this reinforces the sustainable and efficient hospital model defined from the outset of the architectural project. Furthermore, it is a scalable solution, designed to grow in step with the needs of the hospital complex.

'For the 12 de Octubre University Hospital, SMARTair® represents a long-term investment, not only in technology, but also in the quality of care, safety and strategic vision.'

Ignacio Paños





Get ready with you access for what's to come

Digital with confidence

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