

## CASE STUDY

# Hammarby Sjöstad, Stockholm, Sweden

IMApporter Basic



## ABOUT THE CUSTOMER

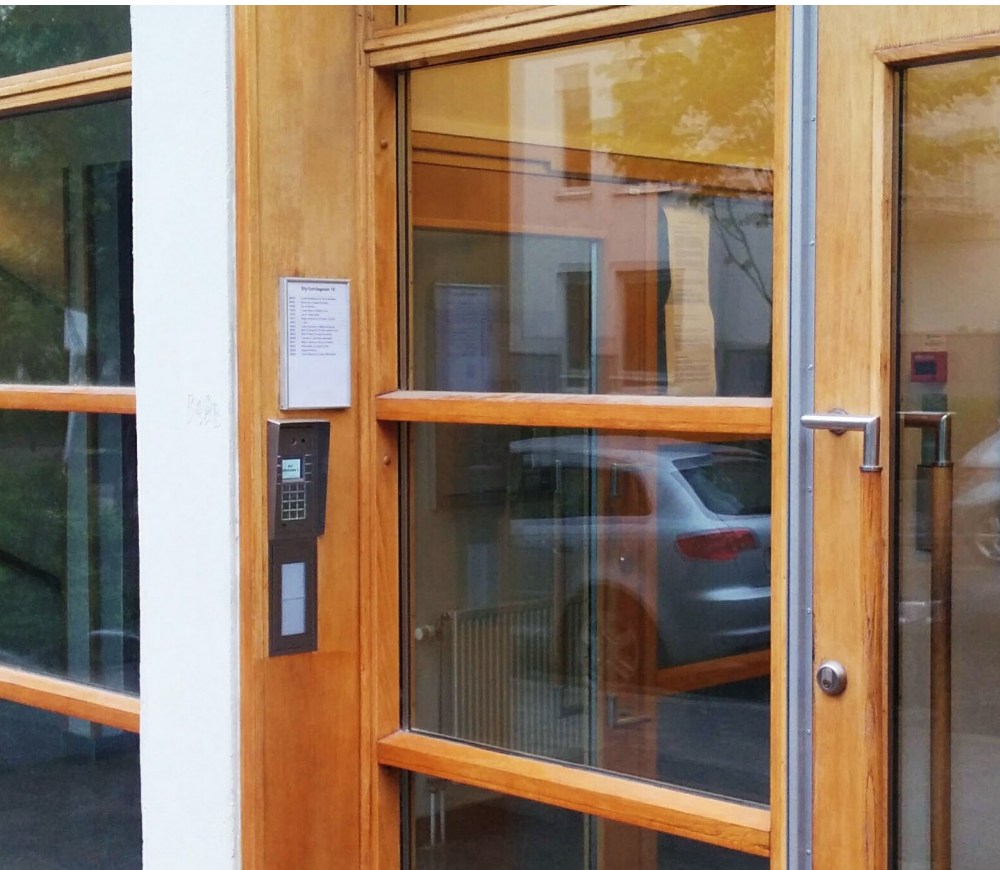
Hammarby Sjöstad (Hammarby Lake City) is a modern, sustainable urban-eco district developed in a former industrial area in the capital of Sweden. Most of the residential buildings in the neighborhood were built in 2001 and the development is still ongoing. Aiming specifically at sustainability and a high standard of living, the district is now known for utilizing the most modern technologies.

## WHAT WERE THE NEEDS AND GOALS?

Sweden, a country well-known for its low levels of crime, has recently experienced a rising number of burglary and theft cases. As such incidents occur mainly in the wealthier residential areas, building owners have started to take precautions. Previously lesser-secured buildings are gradually starting to adopt solutions bringing additional security to their residents and their property.

Among many others, the owners of the apartment buildings in the Hammarby Sjöstad district have also decided to invest in additional safety by securing all doors in the block with an Access Control System (ACS). The initial plan was to secure all 19 entry doors, 2 garage gates and 62 doors to common areas within the building, including multiple fire escape doors, with a system that could fully satisfy the specific security requirements of residential buildings and, at the same time, be easy to use.





## THE SOLUTION REQUIREMENTS:

- high security of the building entry doors
- full management of user access rights by the building administrator
- use of modern technologies compatible with mobile devices
- compatibility with city transport cards
- high security of identification tokens
- limiting user access to specific groups of doors according to date and time
- intuitive user identification
- simple and fast installation
- history log in case of an undesired incident

## HOW WERE THE NEEDS MET WITH CHALLENGES?

Based on its extensive experience in design and delivery of world-class innovative ACS systems for apartment buildings, IMA was chosen as the provider of a solution meeting all of the above stated requirements.

With the emphasis on the needs of residential buildings, easy management, innovative technologies and a high level of security, the only logical choice was the IMAporter Basic ACS.

A building with 10 main entries and 9 backyard entries had to be equipped with a total of 83 centrally managed smart readers with a distributed user rights database. The system has been designed to use a central Xeon-powered virtualized server and 4 remote server rooms, each aggregating all communication and backed-up power lines from the nearby readers. The communication between the server rooms and the central management server has been projected to run on MPLS-based VPN network ensuring a reliable connection among all points over the Internet.

All of the entry doors have been equipped with high-security ASSA ABLOY motor locks and swing-door operators for automatic door opening crucial mainly for disabled residents.

The combination of the auto-locking electrical locks and high security identification solution has significantly enhanced the building's safety, thus eliminating any unauthorized people from entering the building.





## WHAT TECHNOLOGIES WERE USED TO ACHIEVE THE GOAL?

### IMAporter Basic Access Control System

IMAporter Basic is a smart identification solution utilizing innovative mobile technologies and supporting user identification using NFC (Near Field Communication) and BLE (Bluetooth Low Energy). The system uses a wholly new approach to the arrangement of the components, when all intelligence is concentrated in the smart reading terminal, while an external switching module protecting the system from brute-force attacks is connected via an encrypted data line.

IMAporter Basic can be operated online, offline or as a standalone device fully managed from an Android NFC device. Communication with a central PC is available over Ethernet or a Serial line.

### IMAporter Key Mobile Access Solution

IMAporter Key is an add-on platform available for all systems from the IMAporter family. IMAporter Key enables Mobile Access using any Android or iOS mobile device equipped with either NFC or BLE technology. The solution includes a cloud-based ID management system for an easy and secure identifier assignment over SMS, QR code or email.

#### CUSTOMER QUOTE

“*The IMAporter system has proven its ability to efficiently secure residential buildings, while maintaining a simple and comfortable door opening. Apart from ID keyfobs and city transport cards, we are now prepared for user identification via mobile devices with NFC or BLE technologies.*”

**Charlie Sjömark**  
Building Manager

