

## CLOSING SYSTEMS RFID FOR LOCKERS

### DESCRIPTION OF THE APPLICATION PROCES IN HEALTH CENTRES

#### STEP 1: CREACION OF A CARD/ WRISTBAND

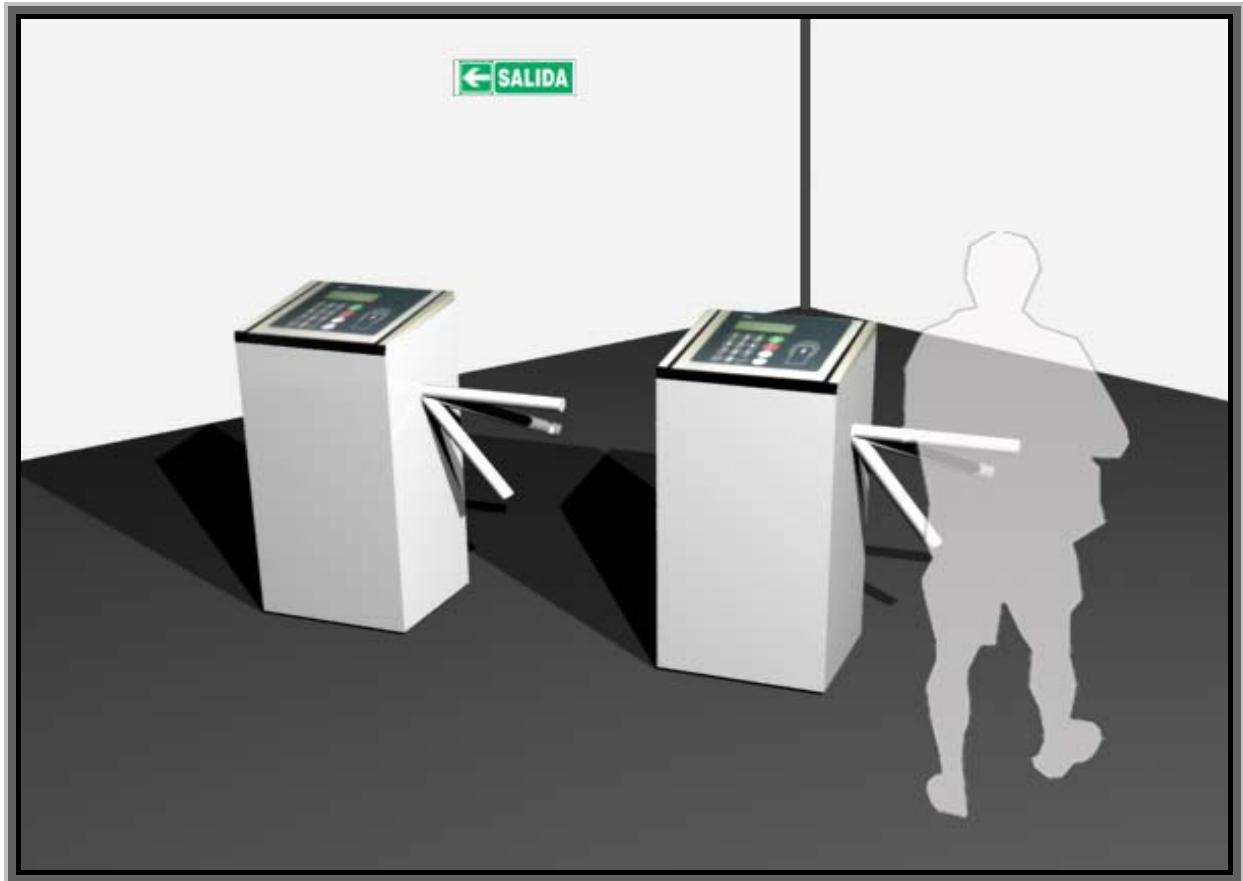


→ The RFID closing system for lockers. The RFID locks are controlled by a card or a wristband created by the administration/ reception department. This card or wristband is also used to enter the Access Control (AC) ports of the centre.

The card or wristband has to be entered into the system of administration/ management and should have to be activated by the administrators/ reception of the centre.

Kimaldi´s closing system of lockers can function in a free mode or a selected mode. In the free mode the user do not have access to a programmed selected locker, he choose randomly a locker that is free. In cases of renting or own property we could use the programmed selected mode. In this case, the client uses always the same locker.

## STEP 2: ACCESS TO THE ACCESS CONTROL ENTRY PORTS WITH CREATED CARDS/ WRISTBANDS



→ Once the card or wristband is created, the client can open the entry ports of the centre. In this sequence, the client could pass the entry ports by the help of the Access Control (AC). The access is realized by placing the card or a wristband above the AC and through radio frequency (RFID) the card or wristband will be read, the ports will be opened or closed depending of the acquired access. The administrating/ management Software Control Access (AC) is arranging the lockers.

When a client wants to leave the entry-ports they should have to carry-out the same action, by placing their card or wristband on the Access Control. The Access Control, informs directly to the Adminstrating/ management Software the status of the locker. (open free for use/ closed not free for use). The administrator of the entry-ports could decide to let the client leave while the locker is occupied. The software takes in account these actions. This is also allowing the administrator to see quickly percentage of free/ occupied lockers on busy evenings.

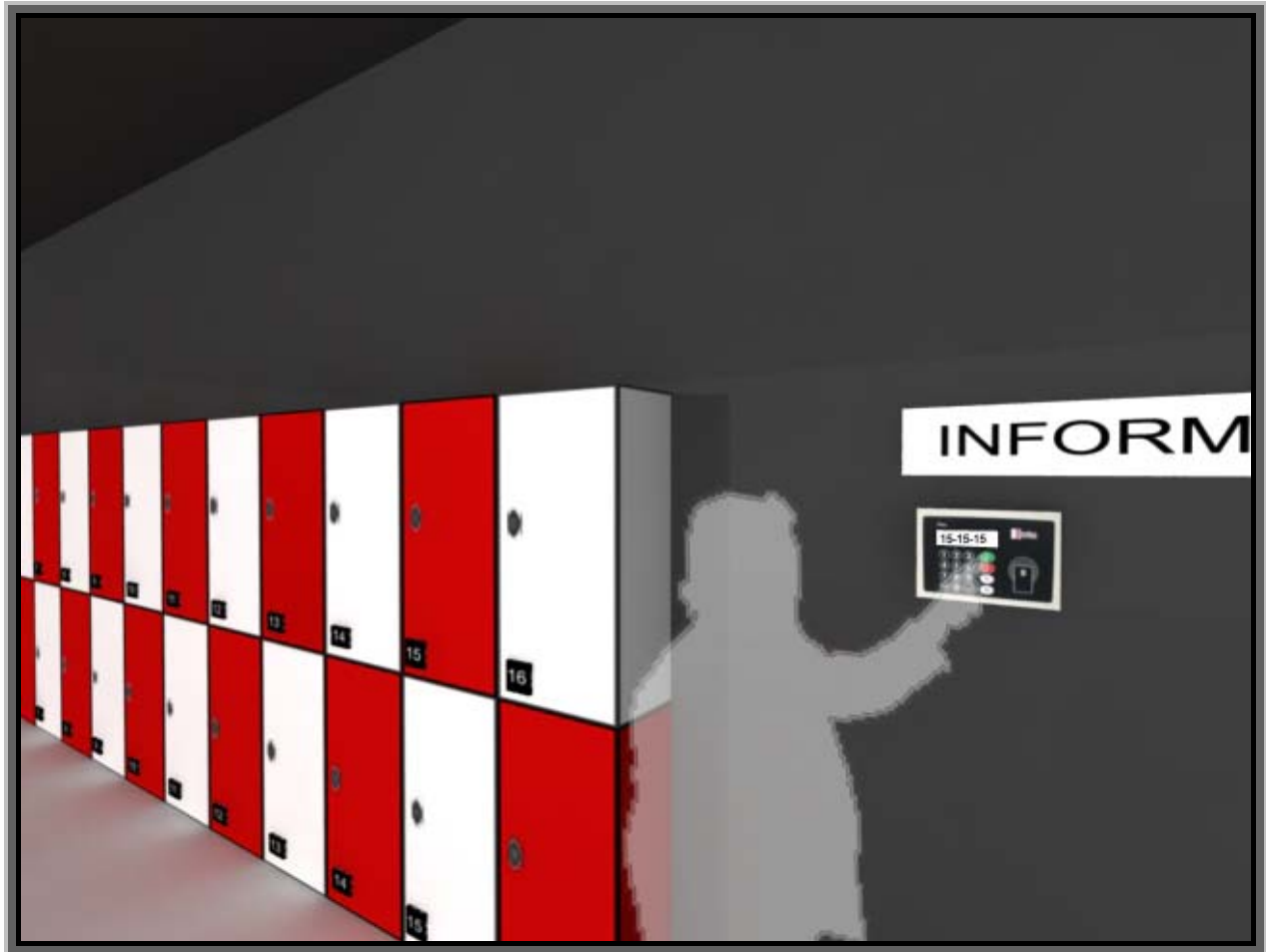
### STEP 3: SELECTION OF THE LOCKER AND THE CLOSING PROCES



→ This sequence can be divided in two ways, on the left side the client goes directly to the free locker to store the clothes. Once the client has stored the objects, he could close the door and by placing the card or wristband (RFID) near to the door of the locker. From this moment, the number of the lock will be stored on the wristband or card, moreover a signal will be saved on the card or wristband in case of low batteries of the locker.

On the right part of the image we see another user that wants to open a locker. To remind the user into which locker he can store clothes, he uses the Terminal unit. This device will provide a free locker number.

#### STEP 4: USAGE OF THE TERMINAL



→ All the data is stored into this device and is constructed with RFID technology. When the user is standing in front of the Terminal, he has to place near the reader the wristband or card, immediately after this action, the screen shows a message of which locker is available.

### **OTHER OPTIONS TO KEEP INTO ACCOUNT BY CLOSING THE LOCKS OF THE LOCKERS.**

→ For security reasons, the centre has the option to open automatically the lockers on determined/ selected hours, just to control that all the lockers are kept empty of properties. For example, during the closing period/ hours of the Health Centre. This improves to have a routine control carried out by personal to check that all the lockers are really empty.

The centre can control the status of the batteries of the lockers in whatever moment. The Management/ administration Software is providing these options. This contributes to less problems in opening/ closing of a locker.

In case s locker has a low battery, this information will be stored on the card and when the user is leaving by the Entry/ Exit-ports this information will be transferred to the Management/ administration Software.