

Manual. PcToLock.



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COMMUNICATIONS BETWEEN USB-KCOM ADAPTER AND SOFTWARE PCTOLOCK

The PcToLock (KCOM PROX) is a USB communication adapter that uses a property protocol that belongs to Tesa. This adapter has no intelligent, and adapts the signals sent by the software PCToLock to communicate with the devices (locks, safes, wall readers, and electronic cylinders). These signals are transformed into formats that the devices can recognize.

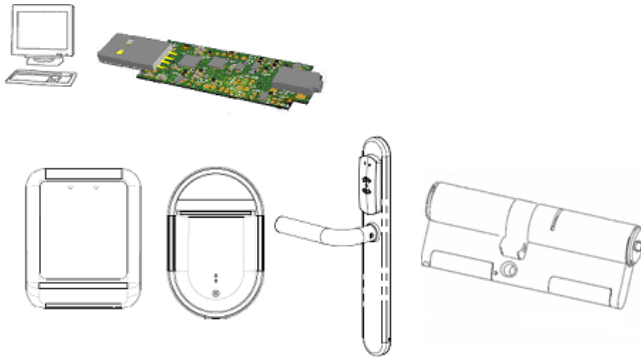


Figure 0-1: Schema of the communication with different devices

The adapter is connected between the PC and the device to facilitate the connectivity and bi-directional transmission of information, i.e., the device will answer the PC sending the information required.

The adaptor is powered by the PC through the USB port

1.1 Compatibility with Devices

This adapter can be used with the following devices (and higher):

- Electronic Cylinder. S4ECK
- Proximity Devices (Lock and/or Wall Reader), S4 Family
- Proximity Devices (Lock and Wall Reader), S6 Family
- Proximity Devices (Lock and Wall Reader), S9 Family
- Proximity Devices (Lock and Wall Readers), R3 Family

Note: The adapter is not compatible with proximity Knob Cylinders yet and with self-programming devices.



2 PCTOLOCK VERSIONS

In this section, there are shown the functions of the PcToLock:

- Initialize/ Update / Test / Get audit trail from the devices
- Open (with and without batteries).
- Language Configuration, visualized doors, ...
- It writes the Manufacturing values to the devices.
- Multi-installation: Different files from various locking plans can be opened.
- Firmware Update (locks, Wall Readers, electronic cylinders, cabinet locks, safes)
- Improve the firmware update because there were cases when the updating was interrupted and the updating should be restored
- In the option "Manufacture" recover the device into the manufacture mode, it is included the user InitWireless to be able to prove them without being initialize
- It is available the option "Open" to those devices that are erased or in manufacture mode although no Data is loaded in the PCToLock.

- The proximity Knob Cylinder can not be managed
- Auto programmable Devices can not be managed
- Authorization Key: the PCToLock does not manage this function

In order to run and be compatible PcToLock application, it is necessary a Laptop, tablet PC, Notebook, or any device with the following requirements:

- Operating system: Windows XP, Vista, 7 or 8 (Dual likely find tablets with Windows + Android OS). Confirm that tablets let you run Windows applications on the desktop of third parties (it is common that only allows applications downloaded from the Microsoft Market): i.e.: Windows RT operating system will not run applications that have not been downloaded from Windows Market.
- Processor and memory: enough to run the OS installed. 10MB hard disk space.
- USB 2.0 port server mode type A (host USB - HOST) capable of supplying 5V and 100mA. Optionally, 2nd USB port to connect the flash drive with data.

3 COMPATIBILITY INSTALLATION DRIVERS OF THE SOFTWARE PCTOLOCK

The software PCToLock is only compatible with Windows OS, regardless of its version. This means, that it can not be loaded in Mac System or Linux.

If the software PCToLock is installed in the same PC where Tesa InHova is, it is not necessary to install any driver, but if it is not so, you will need to do it before you connect the adaptor.

These drivers are saved in a folder called Driver. Double click on CDMxxxxx__Setup.exe to install it.

In the following address, you could find the drivers and its upgrades when it is required for the adapter:

<http://www.ftdichip.com/Drivers/VCP.htm>

4 COMMUNICATION WITH THE PcToLock ADAPTER

When the adapter is already connected to the PC, the next message will appear automatically:



Figure 0-2:: Adapter Detected

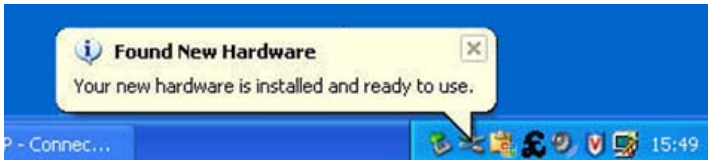


Figure 0-3: Confirmation message when the USB- KCOM has been installed correctly

4.1 USB Port Configuration

There are two different possibilities in the PCToLock to find the USB Port for the communication with the adapter

What we are choosing here is if the program tracks through all ports of the PC until the adapter is found or, on the other hand, the Port is already defined so the program will only send the messages through this specific one.

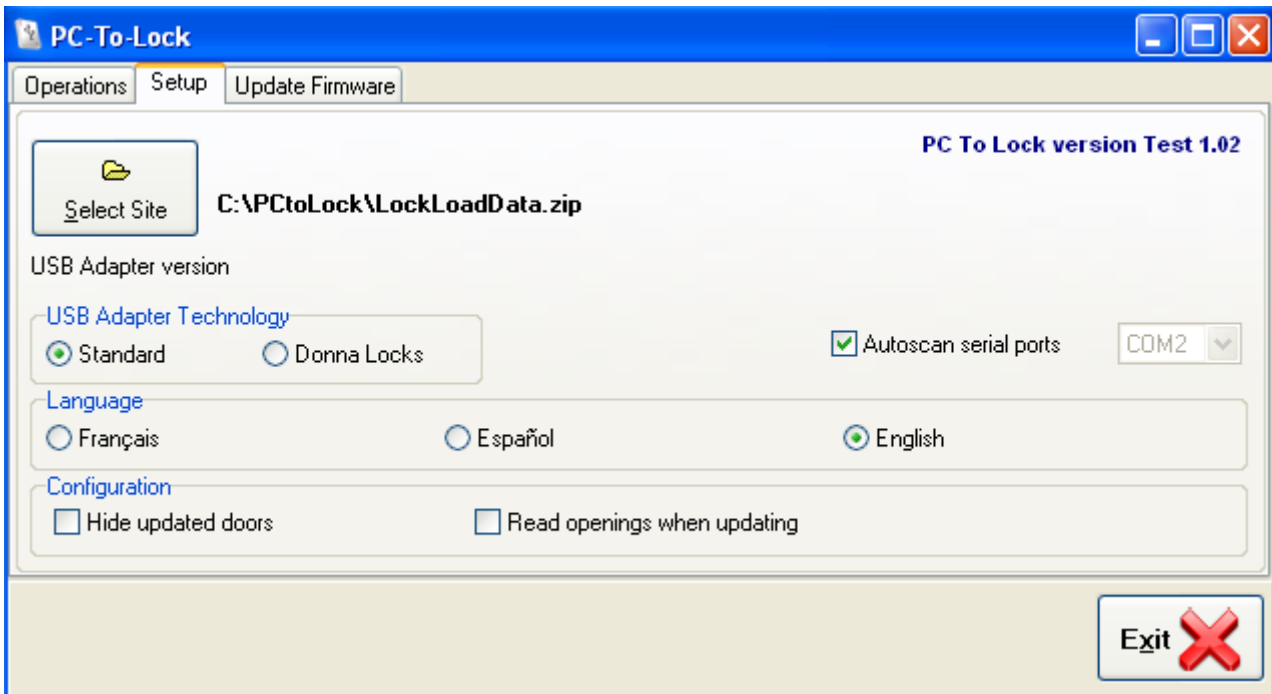


Figure 0-4: Autoscan serial ports or define a concrete one

5 COMMUNICATION BETWEEN THE ADAPTER AND THE DEVICES

The cable used, both to connect electronic locks or to the wall readers is the same one that the one used by the portable programmer. Its length is about one meter.

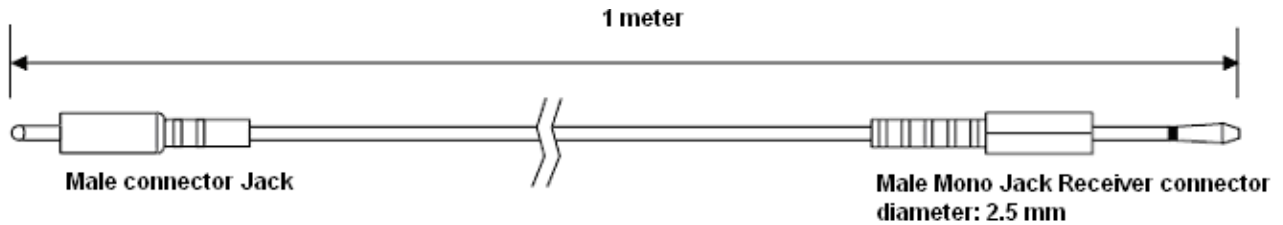


Figure 0-5: Communication cable between the adapter and locks and wall readers



The same thing happens with the cable that communicates with electronic cylinders: it is the same one as the one used by the portable programmer. This means that the connector in one of its extreme has a key form.

It must be taken in account that the electronic cylinder needs to be powered to communicate, because it has no batteries. Power is supplied by the PC through the USB commands

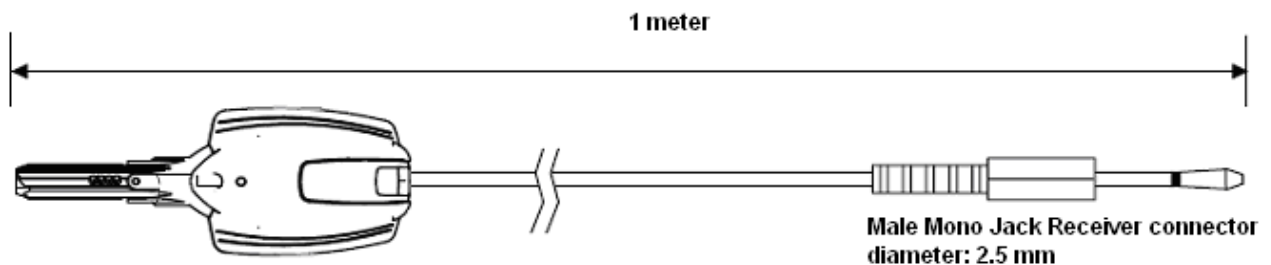


Figure 0-6: Communication cable between electronic cylinders and the adaptor

6 PCTOLOCK PROGRAM WITHOUT LOADING A DATA FILE

In these cases where no file is loaded in the PCToLock, we can only work with locks/Wall Readers/Cylinders that are deleted or in manufacture mode.

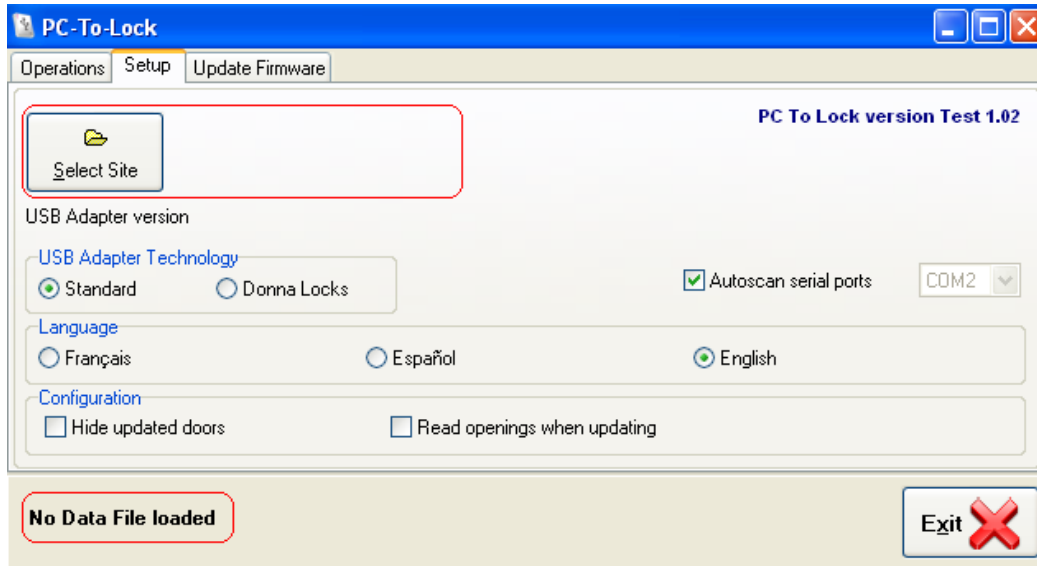


Figure 0-7: PCToLock Program without a Data File

Note: if there is a *.zip file in the same directory where the PCToLock program is installed, when it is opened, this *.zip is also opened automatically.

This means that if you want to open the program without using a data, the *.zips should be stored in an other directory where PCToLock is not located.

6.1 Operations available

As it can be seen in the following picture, not all operations are activated: just the options, TEST, OPEN, and MANUFACTURE

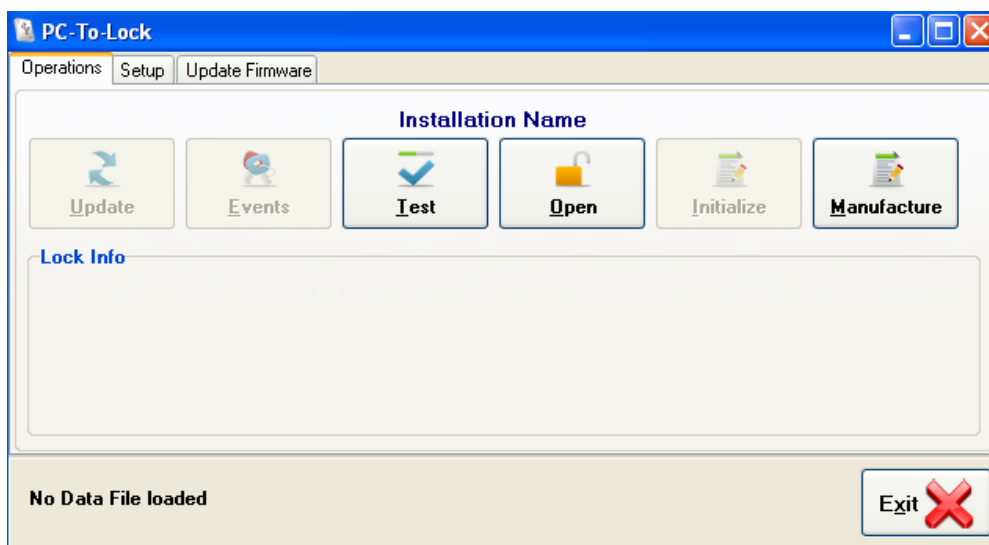


Figure 0-8: Operations available: Test, Open and Manufacture

6.1.1 Test

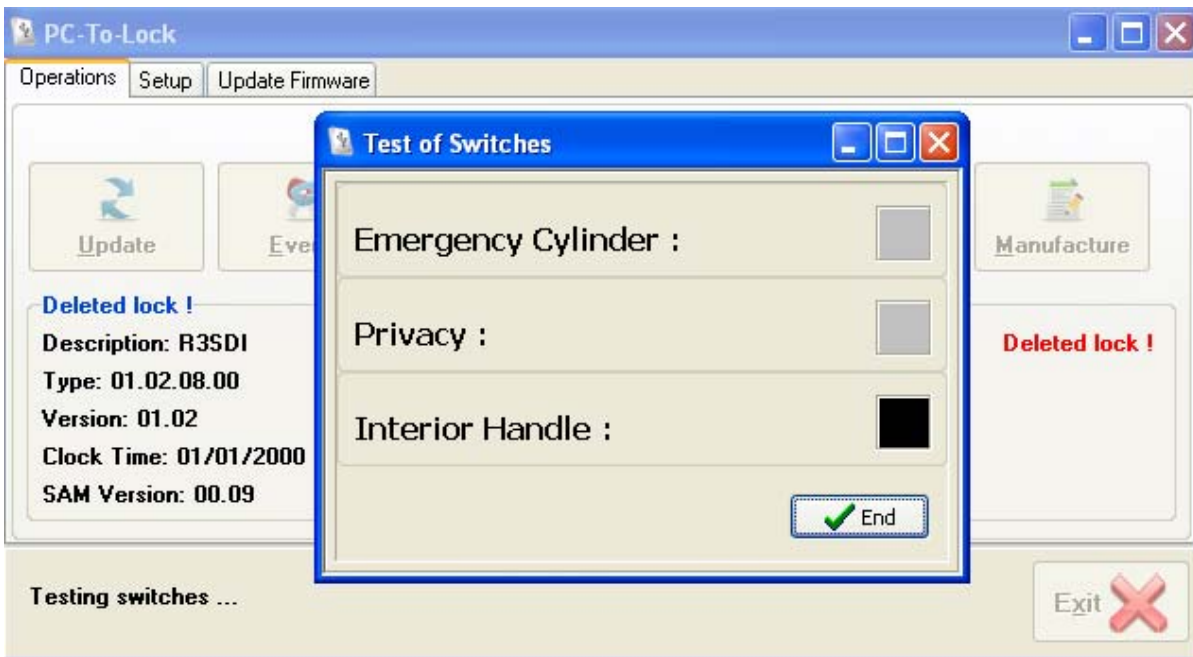


Figure 0-9: Test. Internal Handle activated

During the test the following checks are verified:

- Firmware Device Description. In this example, it is a R3SDI (Lock IClass).
- Type: Hardware Description: In this example: 01.02.08.00
- Version. This is the Firmware version: in this case: 01.02.
- Clock Time: Date and Time of the lock when the locks is tested: 01/01/2000, at 00:09:08
- Switches Test: In this case, the emergency cylinder, privacy and interior handle. At the time each one is test it will be coloured black to show that it was correct. .
- Light Test



Figure 0-10: Light Test

6.1.2 Open

In this option, the device will be opened in emergency, that is to say, that it does not matter if the lock has or not batteries. It has to work both

Note: Remember that Wall Readers can not be open in emergency because they need a power supply to work. This also happens when the Portable Programmer is used.

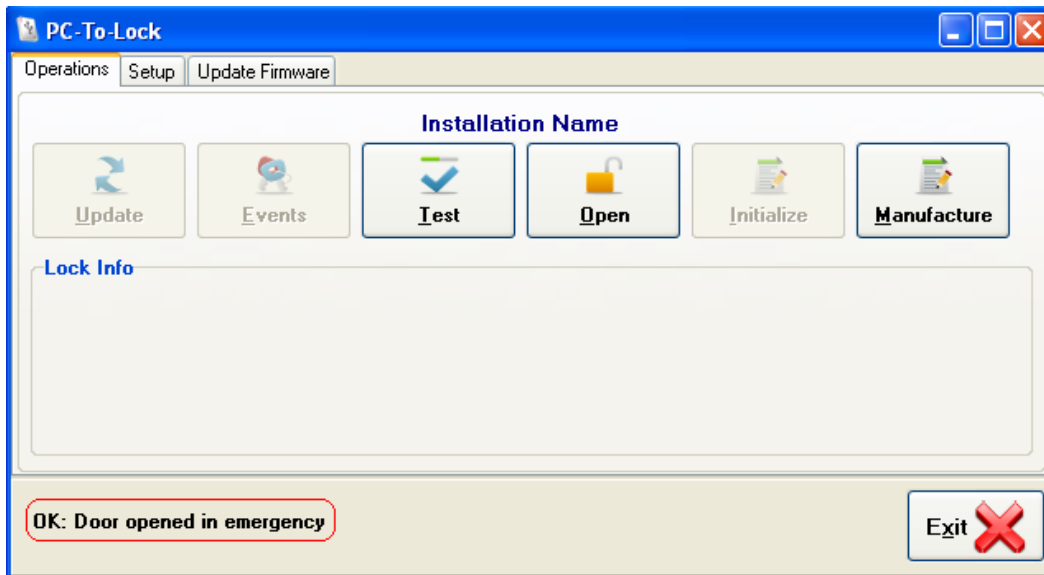


Figure 0-11: Emergency Open

6.1.3 Manufacture

Here are written all the manufacturing data to the device so that they can work in manufacture mode using manufacturing cards

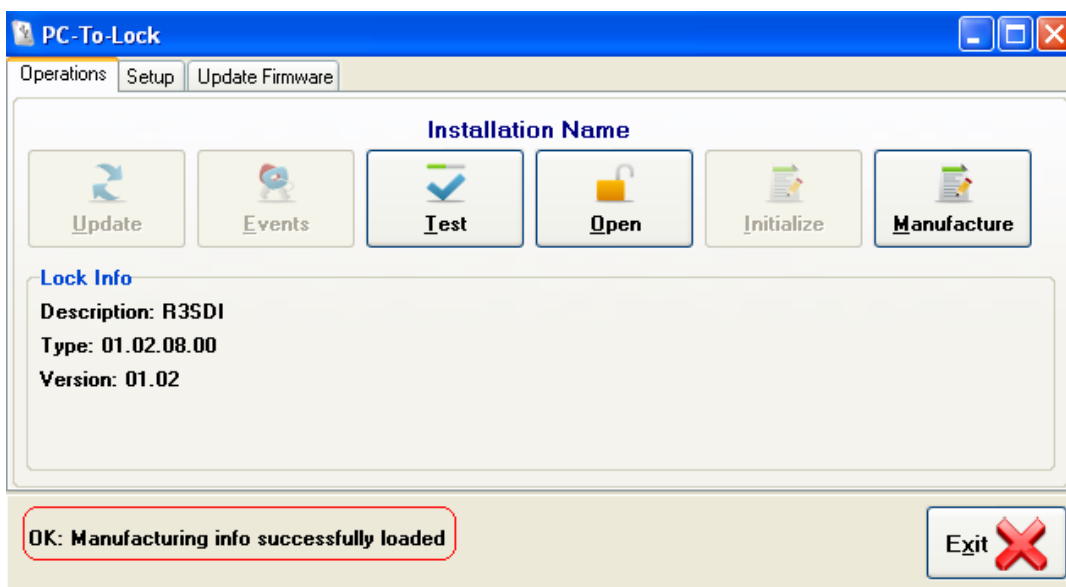


Figure 0-12: Writing Manufacture Data to the device

7 LOADING DATA TO THE PCTOLOCK PROGRAM

The PCToLock program can manage different sites selecting the appropriate zip file.

To work with a Data file, we need to create it first, and this is done from the Tesa Inhova Program. We will have to take the following steps

Note: The version of the Tesa inhova must be 5.03 or higher

Run Tesa inhova and enter the option P.P. Click option Write PCToLock File.

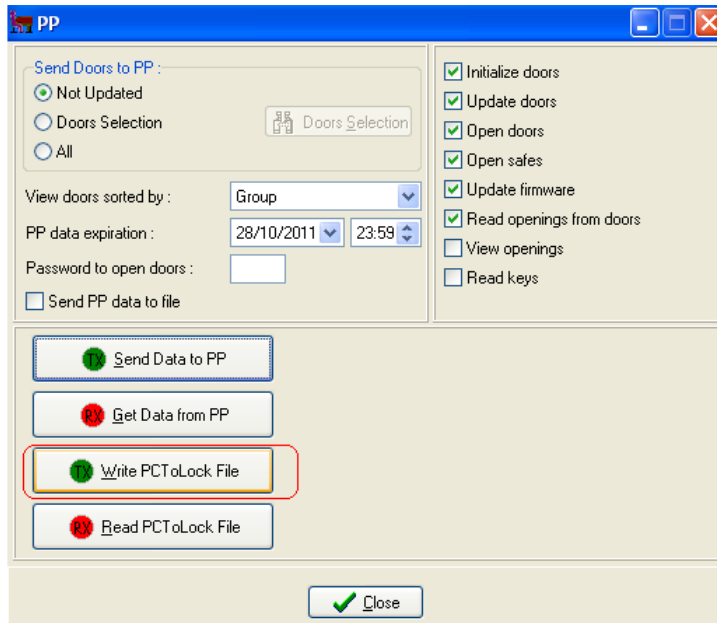


Figure 0-13: P.P. Option. Go to Write PCToLock File

Now, it will appear this message, asking where do you want to save the *.zip file that correspond to the installation you are working with.

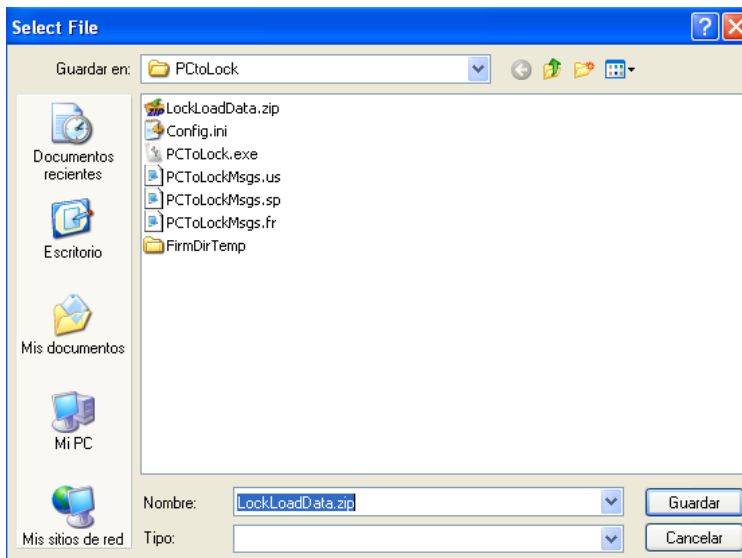


Figure 0-14: Guardando Datos del archivo comprimido de la instalación

From now on, we can start working with the PCToLock using a Data base that belongs to an installation.

7.1 EXPIRATION DATE OF THE DATA FILE

The file generated from the Tesa InHova program can expire if it is specified so. This expiration is defined as it is done in the Portable Programmer. Before, the file PCToLock.zip file is generated, go to the option PP data expiration, and enter the date and enter the expiration date and time. When nothing is written in this field, the file has no expiration date and time.

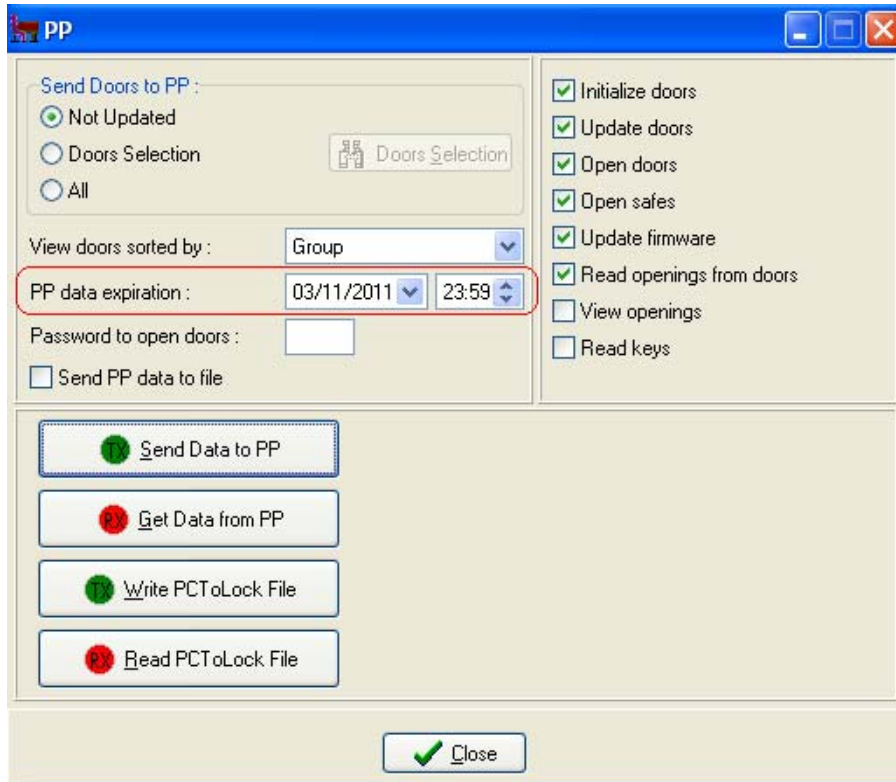


Figure 0-15: Define Expiration Date and Time of the PCToLock.zip file and the Data loaded in the P.P. Define Expiration Date and Time of the PCToLock file and the Data loaded in the P.P. When the file is expired that software PCToLock shows the following message:

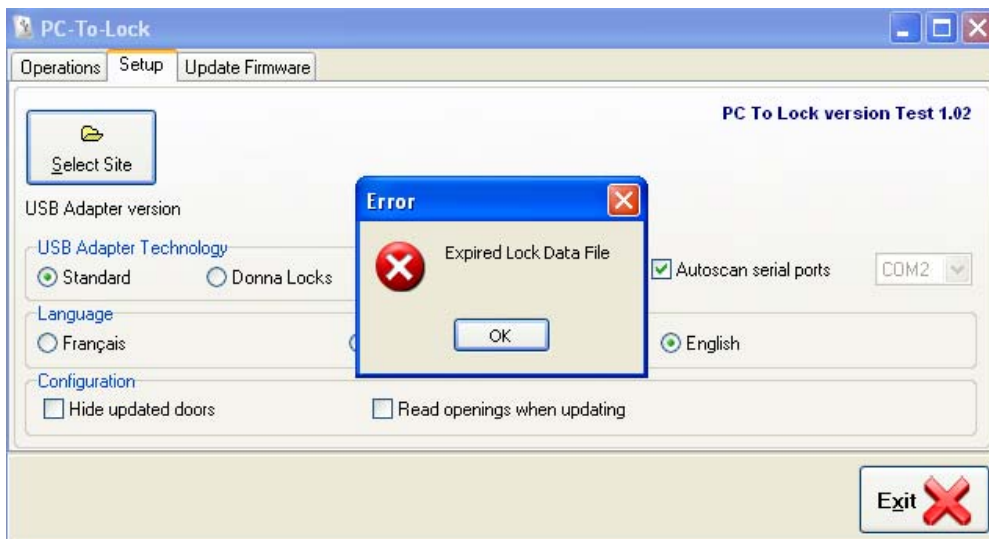


Figure 0-16: Expired Lock Data File

If you need to keep working with the same locking plan and the PCToLock software, you should create a new PCToLock.zip file with a new expiration date and time in the Tesa inhova program.

Permissions to use certain functions with the PCTOLOCK program

In addition to defining the expiration date, you can also select the functions to want to use in the PCToLock program. This is also done from the Tesa inhova

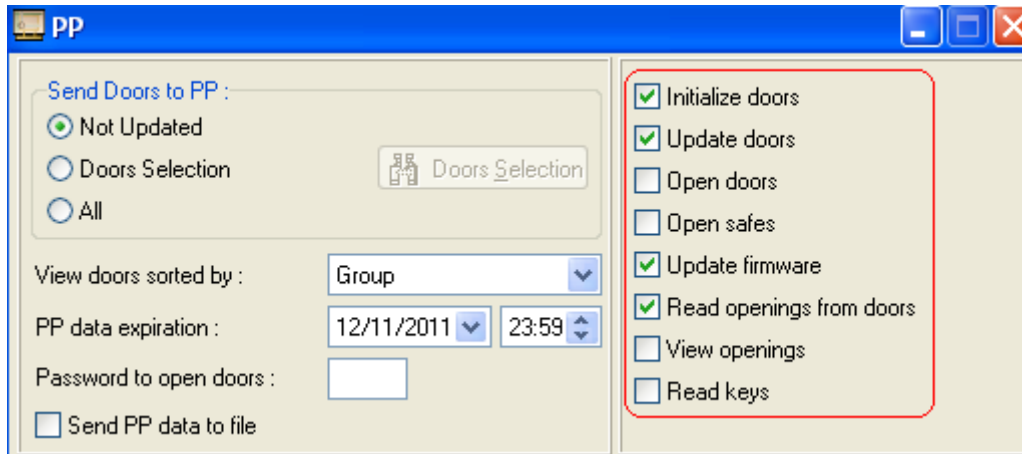


Figure 0-17: Defining operation that can be performed with the PCToLock

In the example shown in Figure 7-5 open doors and open safes is not permitted with the PCToLock.

8 LOADING THE INSTALLATION TO THE PCTOLOCK

PCToLock.zip file is saved by default in the same directory where the PCToLock is. In those cases, when the PCToLock is opened the file will be loaded automatically. If the PCToLock.zip file is saved somewhere else, you need to look for it using the option Select Site.

SetUp

Select Site

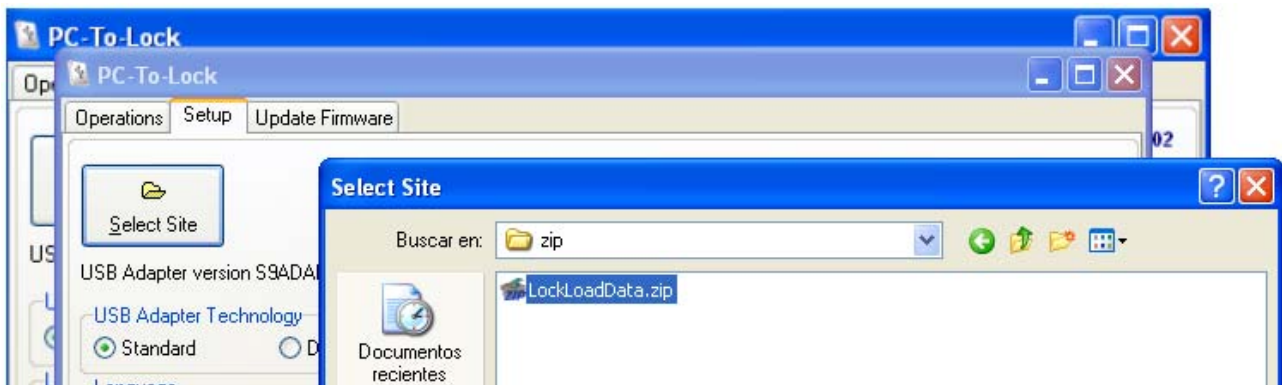


Figure 0-18: Loading Data of a site in the PCToLock program

9 FUNCTIONS

9.1 Configuration

9.1.1 USB Adapter Technology

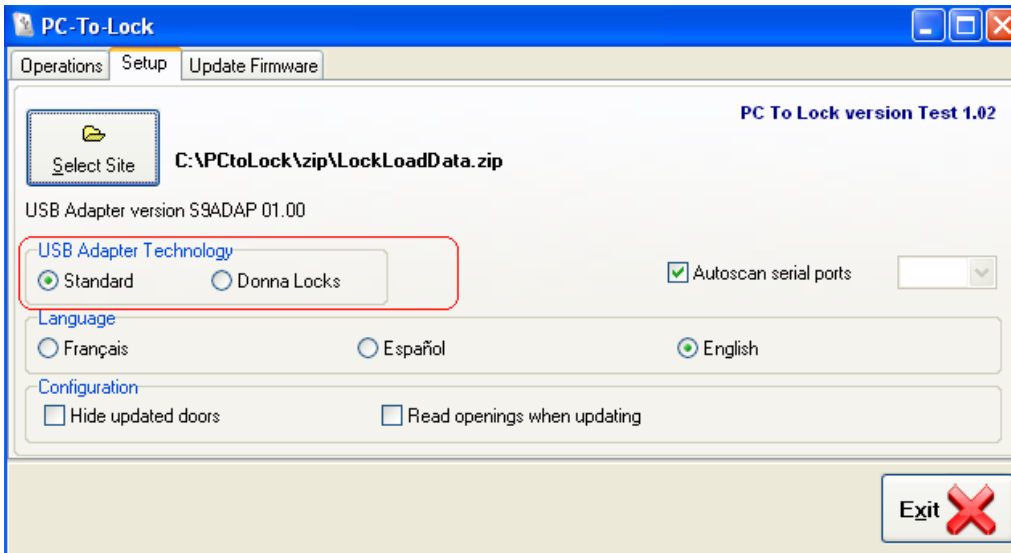


Figure 0-19: USB Adapter Technology

Actually, only the Standard mode is available. So we do not need to change anything in this option.

9.1.2 Language

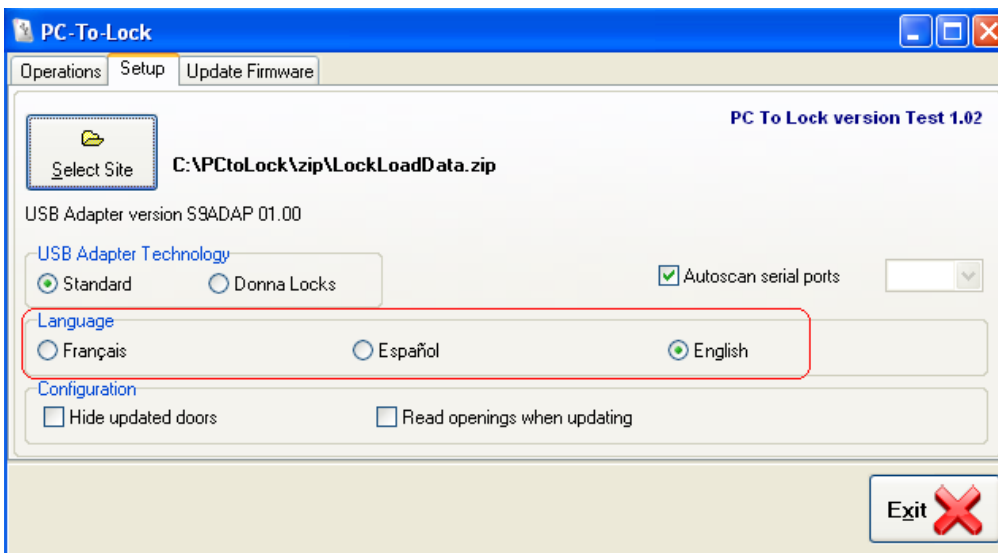


Figure 0-20: Language of the PCToLock program

When we save the PCToLock program in a directory we do not only save the executable PCToLock.exe, but also the files where the languages we want to appear in the program. By defect, English, French and Spanish are loaded but, as in the software Tesa inhova, these files can be translated into other languages. Then these new languages files can be added. They files must be called PcToLockMsgs.xx (where xx is the abbreviation for the language)

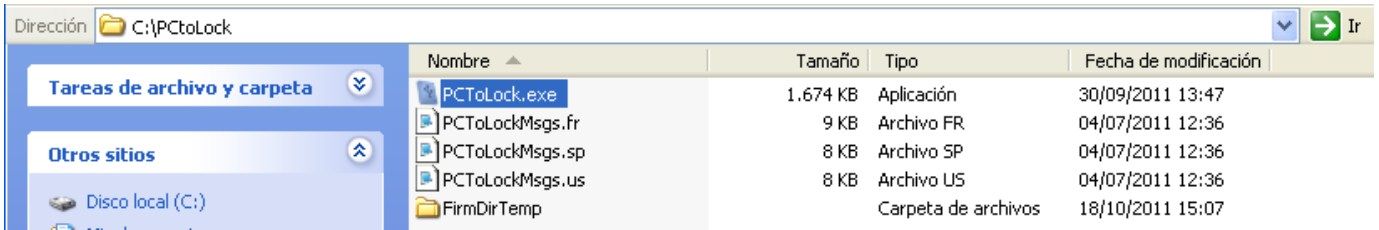


Figure 0-21: Directory where the program and the languages files are saved

9.1.3 Configuration

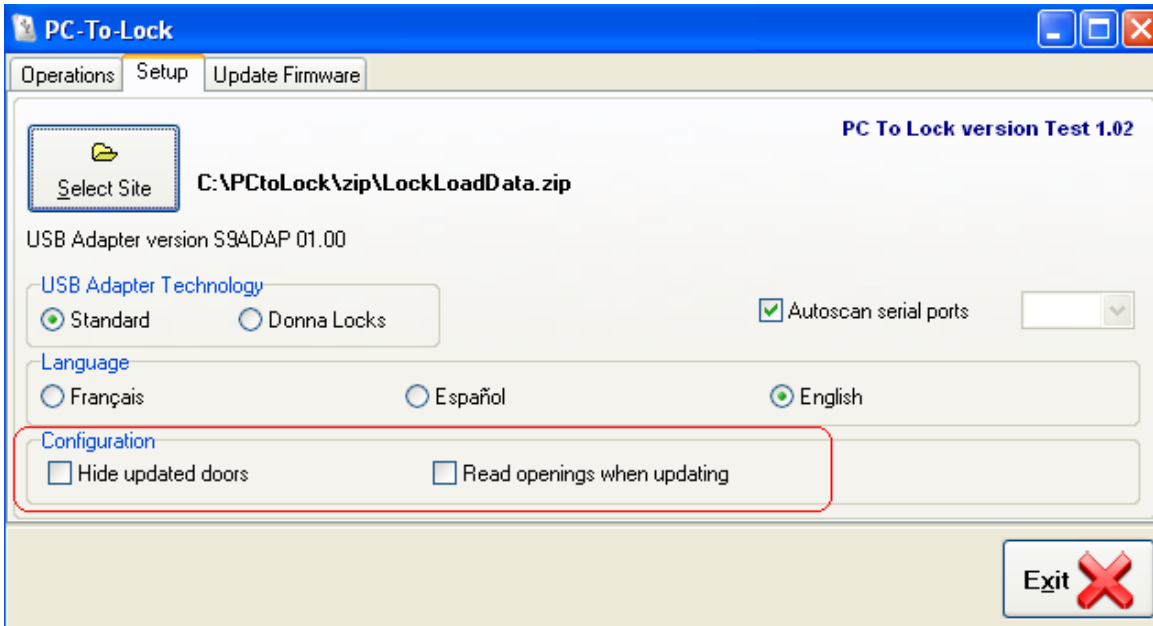


Figure 0-22: Door Configuration

In this option it is selected the possibility of keeping the doors that are already updated visible or not (**Hide updated doors**). You have also the possibility to collect the openings of a device after its updating (**Read openings when updating**)

9.2 Operations

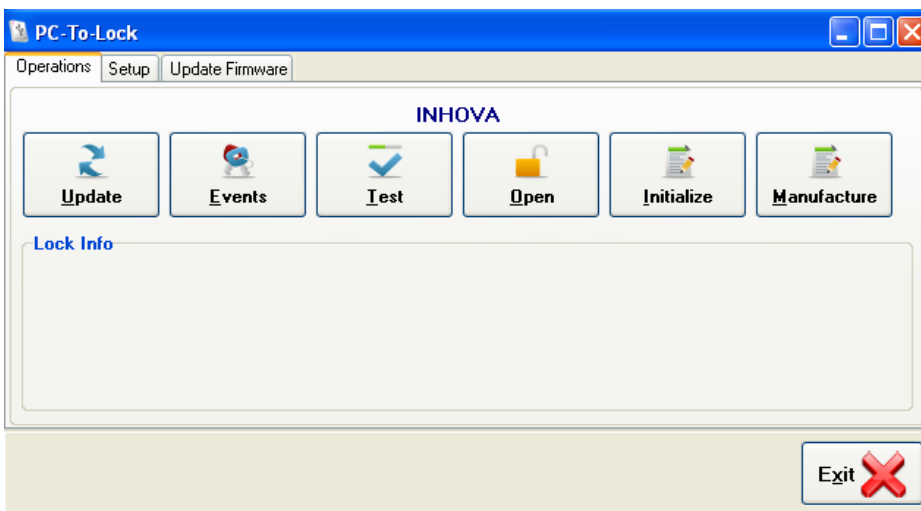


Figure 0-23: Operations Windows

In this option all these actions can be done

9.2.1 Initialize

If the lock is in manufacture mode or belongs to the site loaded in the PCToLock, but the name of the door must be changed, you have to choose this option

Selecting this option, a list of all doors selected in the software Tesa inhova, appears.

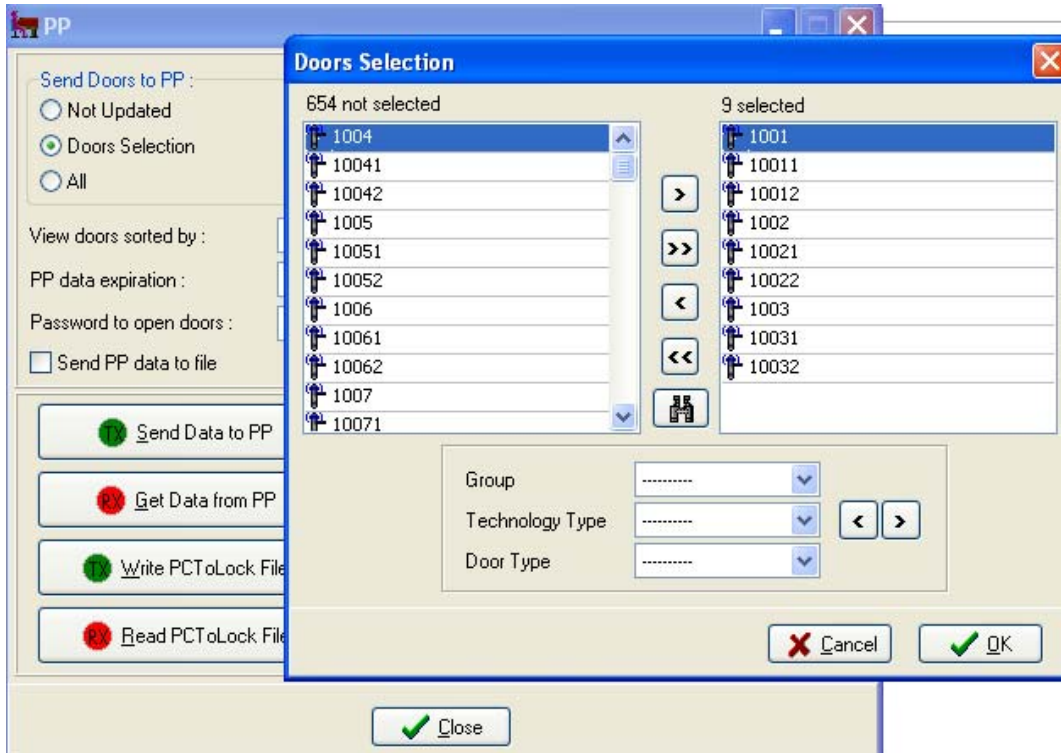


Figure 0-24: Doors Selected in Tesa inhova

Choose one of them.

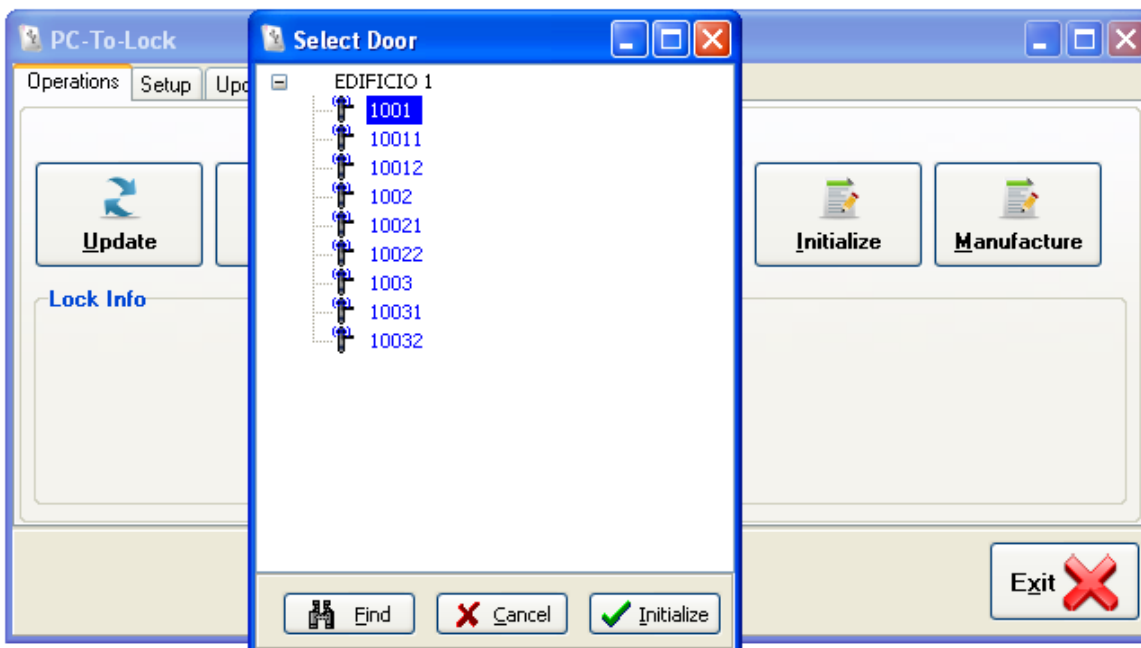


Figure 0-25: Choosing a door to initialize a device

When the process is finished successfully, the program shows the following message:

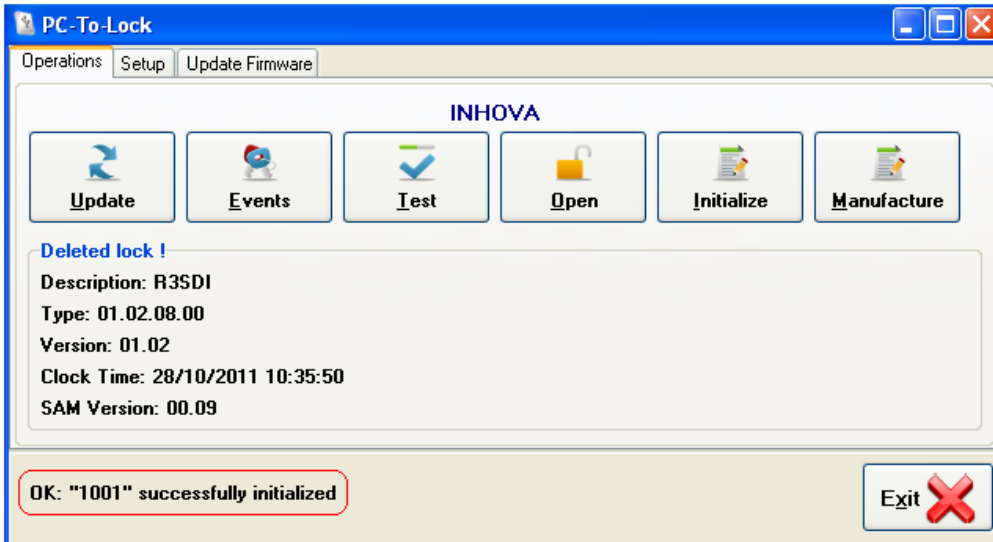


Figure 0-26: Door Initialized

9.2.2 Update

It applies to a device that belongs to the site loaded in the PCToLock

Keeping the name of the device, with this option, its locking plan (time tables, grants, adding new users, deleting users, ...) or the date and hour is updated, either the first one has been modified or the date and hour was lost.

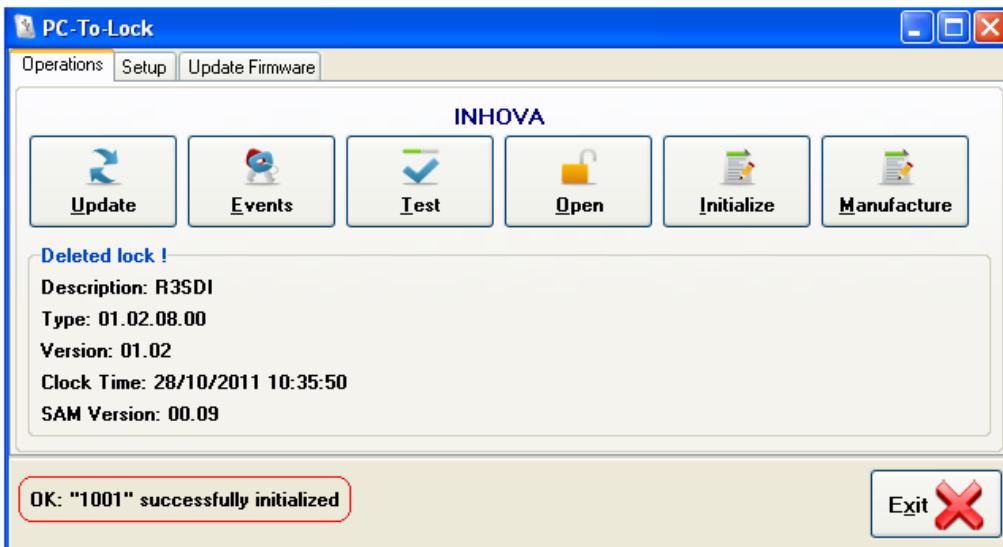


Figure 0-27: Door updated

9.2.3 Events

Here, all events registered in the memory of the device are collected by the program PCToLock.

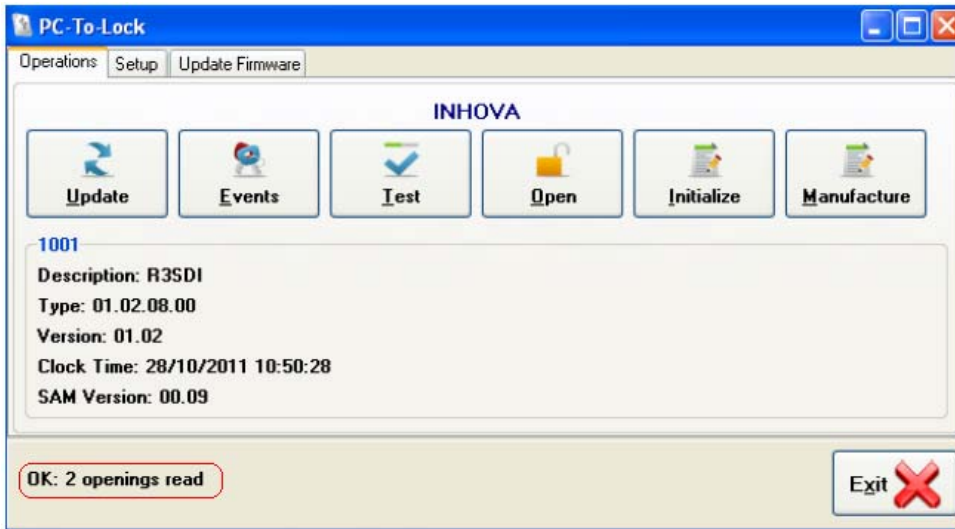


Figure 0-28: Collecting Event from a device

To visualize the events, you need to collect the data registered in the file PCToLock.zip in the program Tesa inhova and then go to the option Events. It is shown in the following figures: Go to the window PP in the Tesa inhova program and click Read PCToLock File:

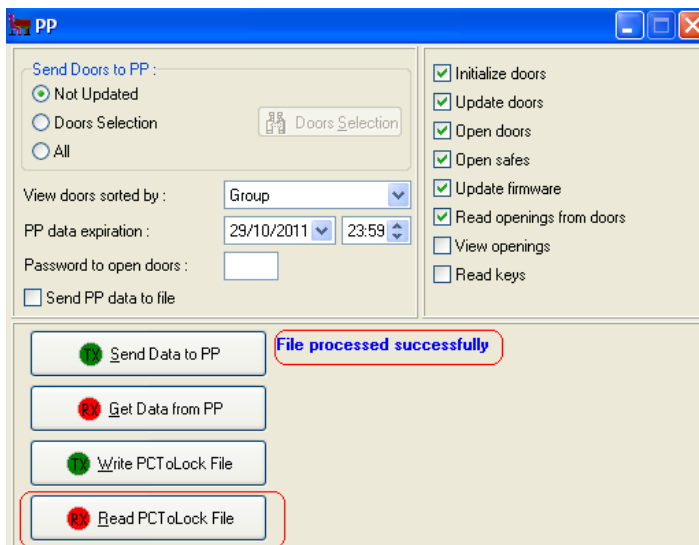


Figure 0-29: Read PCToLock File

Then you just have to go to the option Openings and read the events.

Date	Time	Door	User	Copy	Operation
06/10/2011	12:51:22	Nata	Blocking Card	0	New Key/Card encoded
06/10/2011	12:51:22	Nata	Blocking Card	0	Blocked
06/10/2011	12:51:24	Nata	_Elena Reig	0	Denial : thumbturn not activated
06/10/2011	12:51:28	Nata	_Elena Reig	0	Cabinet locked
06/10/2011	12:51:30	Nata	Blocking Card	0	End of blocked
06/10/2011	12:51:32	Nata	_Elena Reig	0	Denial : Key/Card withdrawn (user locking plan not modified)
06/10/2011	12:51:34	Nata	_Elena Reig	0	Granted access
06/10/2011	12:51:52	Nata	Blocking Card	0	Blocked

Figure 0-30: Event list viewed in the Window Opening Reports of the Tesa inhova program Tesa inhova

9.2.4 Test

This option has already been exposed in section 6.1.1. The only different is that in this case the device is initialized, so it will also be shown the name of the door.

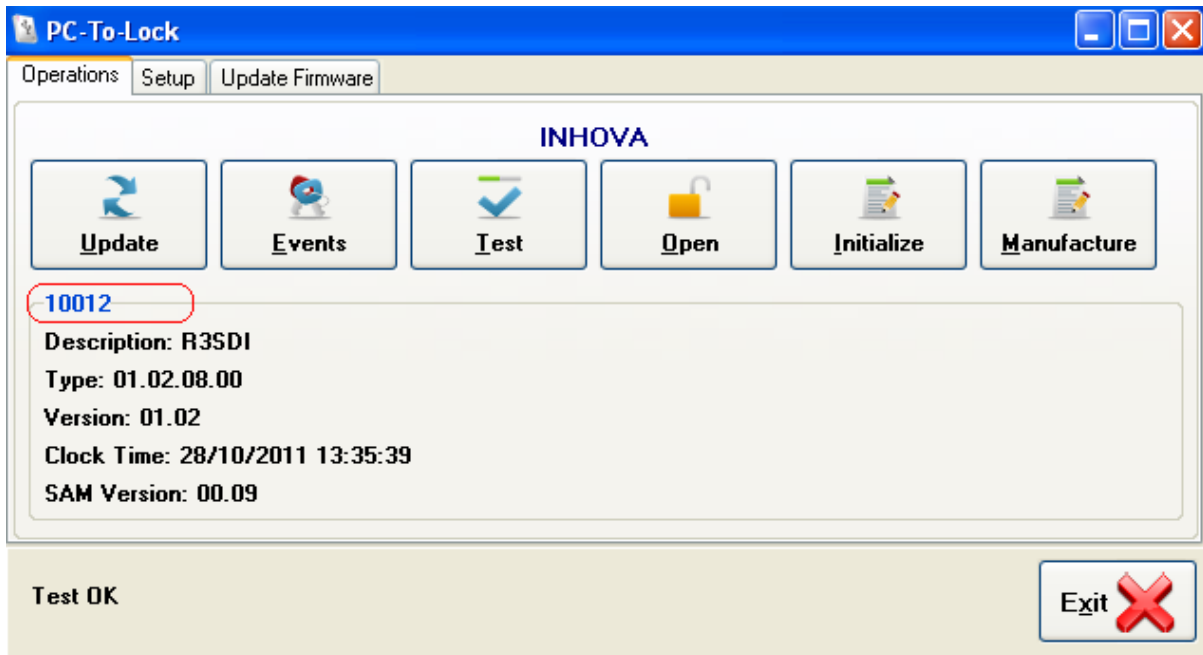


Figure 0-31: Door 10012 tested

9.2.5 Open

The emergency open has been also explained in section 6.1.2. In this case, the only different is that now it can be opened deleted devices and the ones that belongs to the site loaded in the PCToLock program.

9.2.6 Manufacture

This option has been explained in section 6.1.3, but the device must be deleted, because if it is not, the next message will be shown.

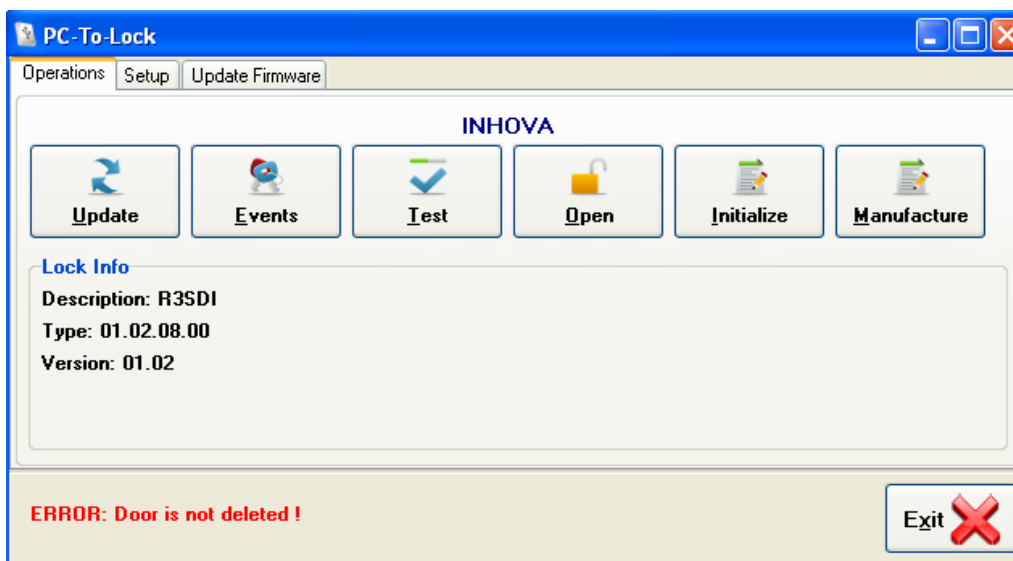


Figure 0-32: Manufacture

Therefore, to use this option, you will have to reset the clear button of the device.

9.3 Firmware Update

Here, you will be able to update the firmware of any device that can be deleted or belongs to the site loaded in the PCToLock

To do this, first load the firmware from the directory you have previously save in the PC and then loaded it in the PCToLock program

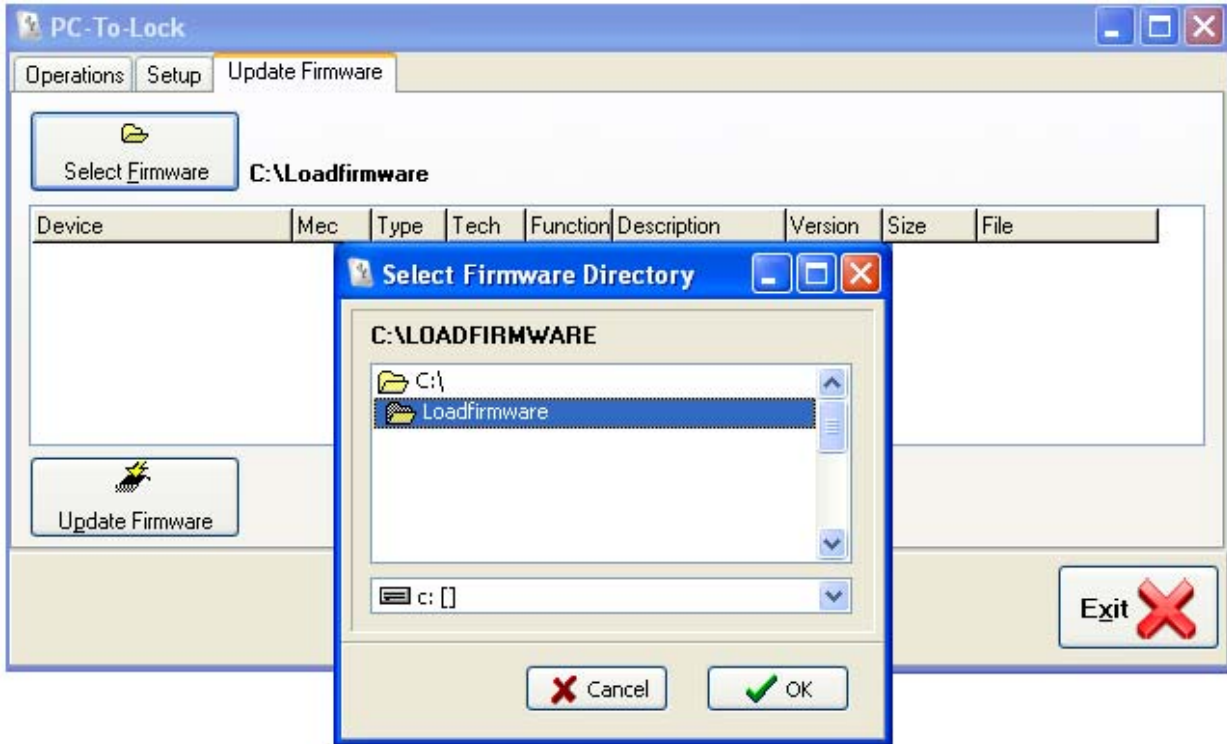


Figure 0-33: Loading a Firmware

Note: you can load as many firmwares as you need.

Before the firmwares are loaded, this advice is shown.

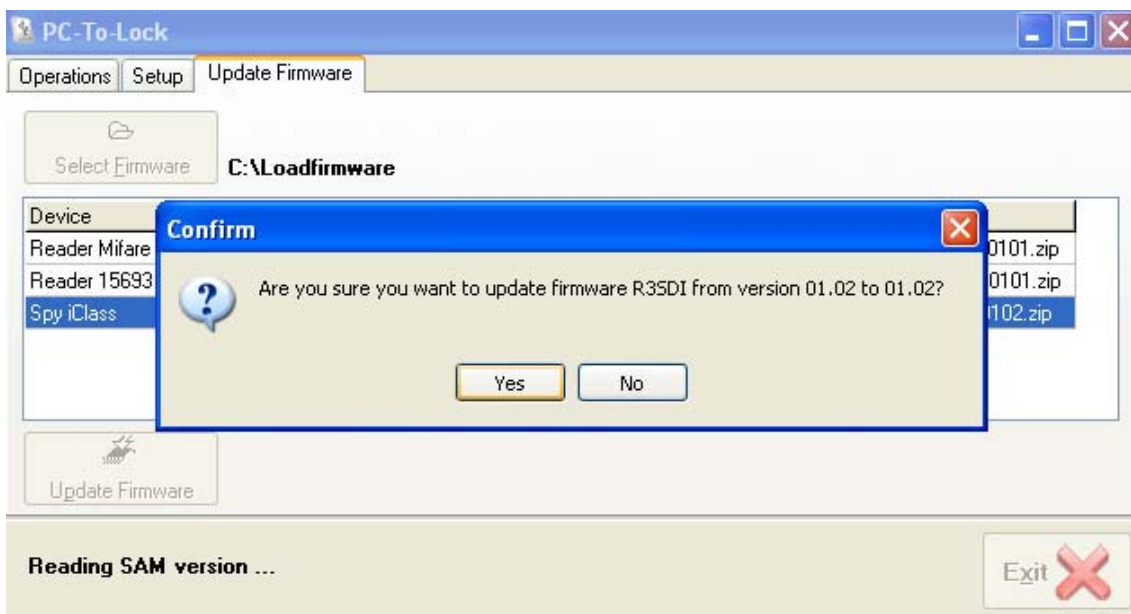


Figure 0-34: Advise before updating the Firmware version

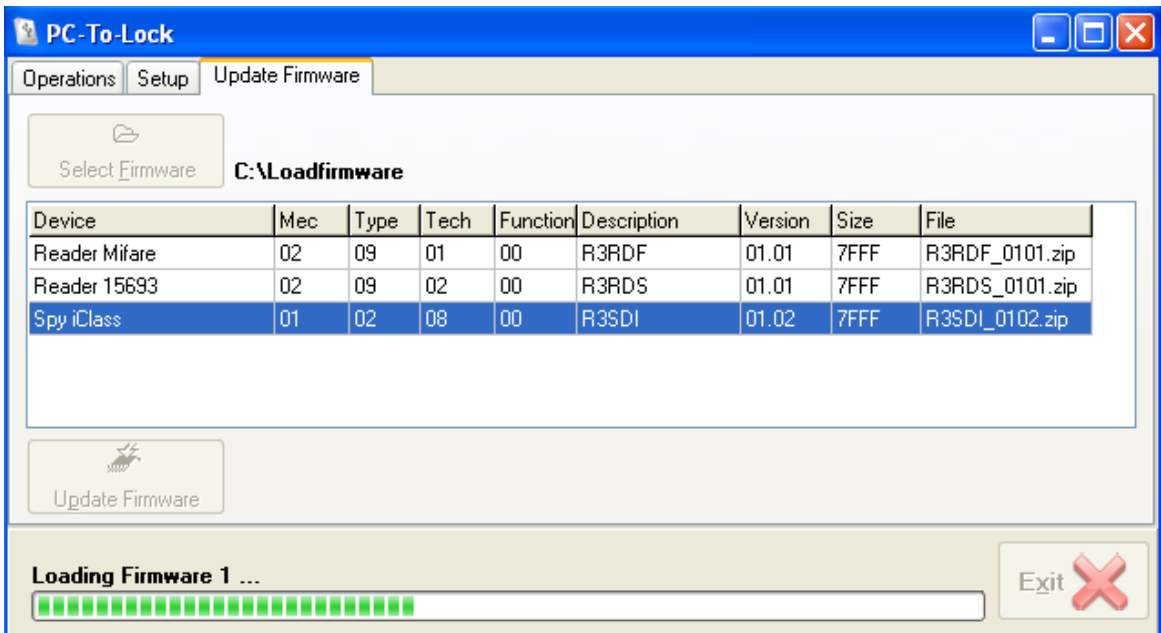


Figure 0-35: Firmware update process

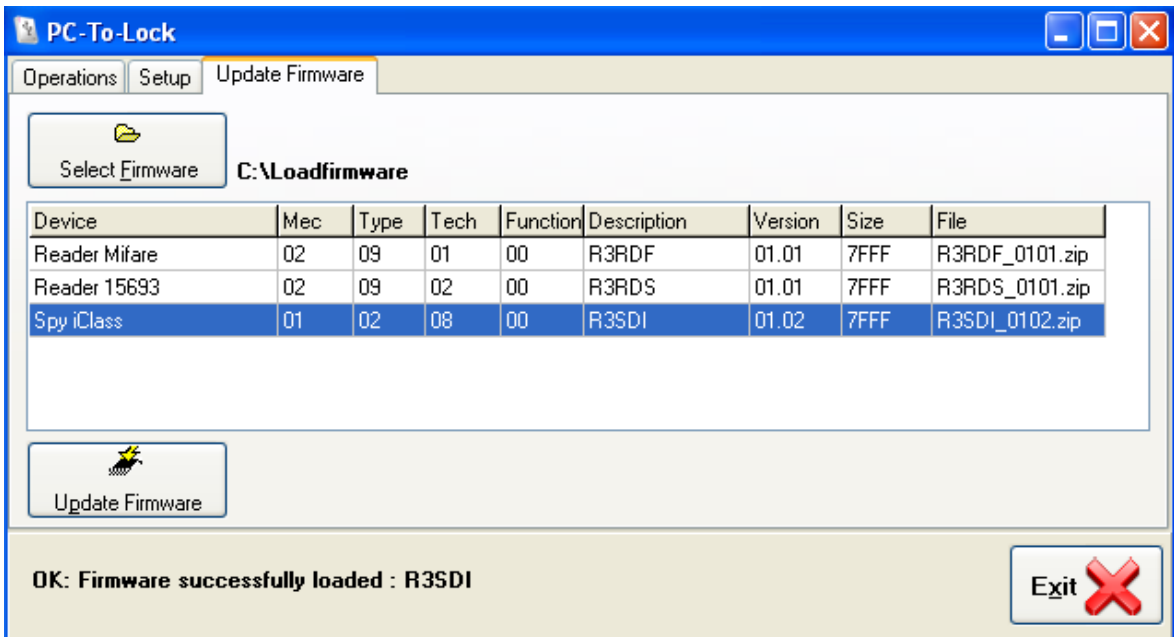


Figure 0-36: Firmware Update O.K

It is important to take note that with the PCToLock the firmware type of the devices can not be changed. For example, a lock that is only Mifare can not be changed into ISO 15693 or Dual technology. It will always be loaded with a new firmware but from the same device, this is to say, that if there is a lock R3SDF version 1.00, can not be upgrade with a higher version of the firmware R3SDF.

To change the technology, you need to use the Portable Programmer.