
# D-TECT Alarm V 5.1.0

**D-TECT Alarm User Manual**

## Revisions log

| Date | Author | Revisions | Version |
|---|---|---|---|
| 02/08/2016 | Enrique Martinez-Cubells | Document was created | 1.0 |
| 05/08/2016 | Enrique Martinez-Cubells | Format was changed | 1.1 |
| 10/10/2016 | Enrique Martinez-Cubells | Full revision | 1.2 |
| 10/11/2016 | Manuel Tamames Yraola | Full revision | 1.3 |
| 09/01/2017 | Manuel Tamames Yraola | New module for displaying alarms<br><br>Screens of visualization in remote equipment | 5.1.0 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

## Introduction

The software application DTECT Alarm was born with the aim of having a series of records that allow us to analyze the different actions taken by the professionals in the care centers.

These actions can be distinguished by:

- Care actions for the elderly or dependent person.
- Actions of maintenance and upkeep of the center.

The application software, combined with Neat devices, stores all alarms that occur and can be subsequently consulted by the center professionals to measure levels in the quality of care, response times and work done.

These devices can be fixed or mobile so it is important to know the location according to the distribution of space in the facility where the care service is offered. The interaction between professionals, users who benefit from the services and devices, properly placed in a context, generate a care activity, which is collected by the system, thanks to Neat radio technology.

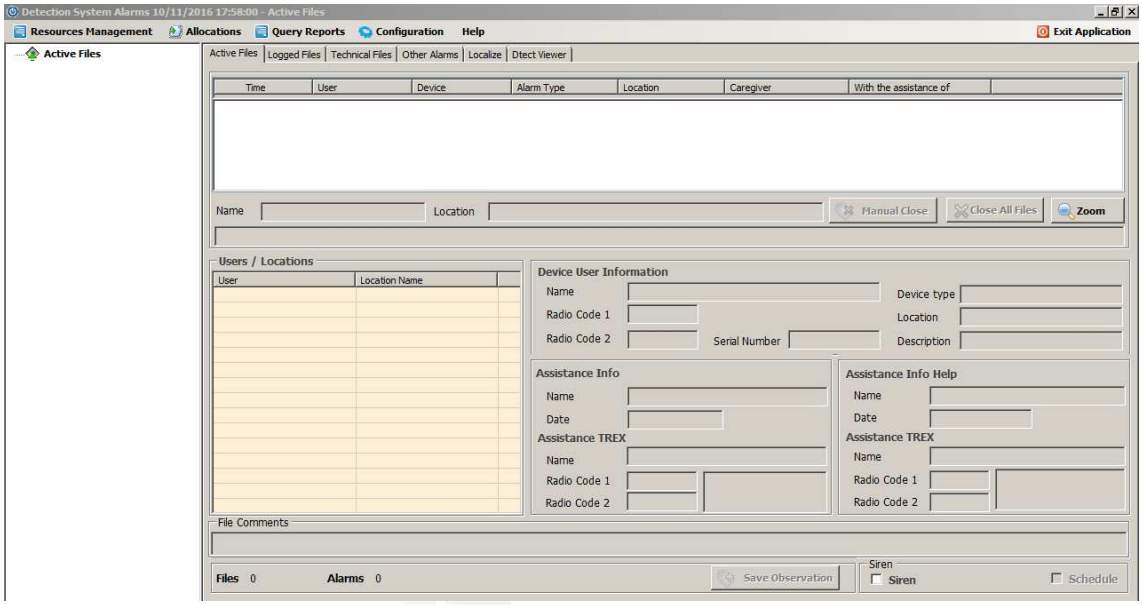
The information generated by the system comes from the following sources:

- Professionals (Auxiliaries)
- Devices
- Locations
- Care Activity
- Upkeep and maintenance activity.

## Open D-TECT Alarm via the Desktop

Upon opening the D-TECT Alarm system from the desktop using the following icon:

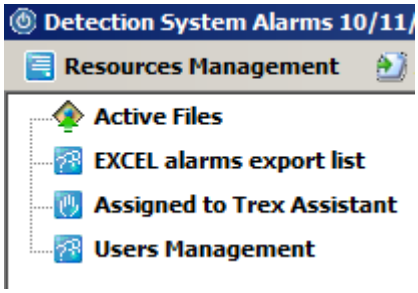

A main screen is opened where you can perform all the operations.




The main screen has a menu with the following options:


On the right of the menu you can find the following options:

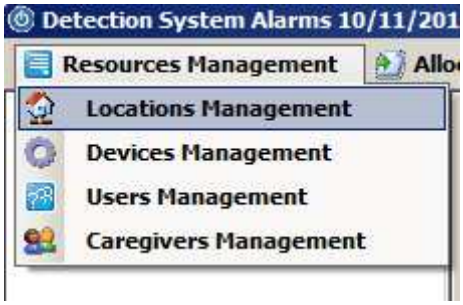
On the left side of the screen a list with white background appears, where different management tools remain open. This lets you work with multiple tools at once while alarms are handled or different sections are managed.



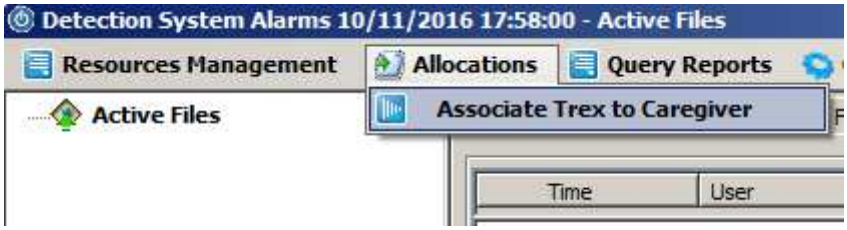

## Resources management:

When you click on it, the following options are displayed:

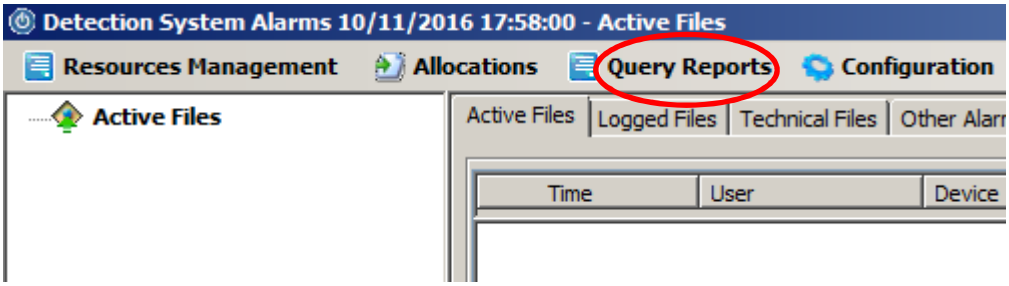
- **Locations management**: To insert, edit or delete a location. It also allows you to group locations to give the devices and users a comprehensive treatment.
- **Device management:** To insert, edit or delete a device installed in the care center; it also allows you to assign a location to it.
- **Users management:** To insert, edit or delete a user; it also allows you to a
- **Auxiliaries management**: To insert, edit or delete an auxiliary.



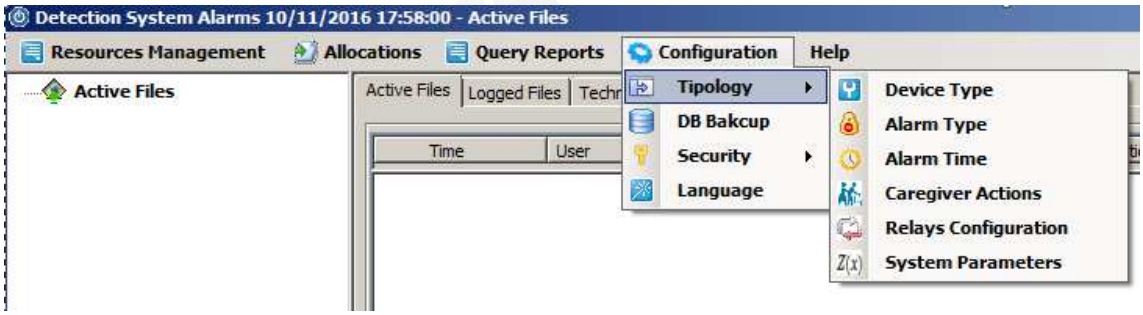

- **Assignments**: When you click on it the option “Allocation of TREX-2G to Auxiliary” is displayed. This allows you assign TREX-2G and D-ATOM units to analyze the actions in which a professional has been involved.



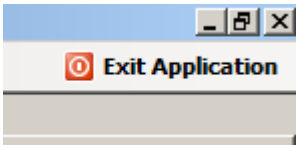

- **Enquiries:** allows you to generate reports about users, auxiliaries and also you can export alarms.



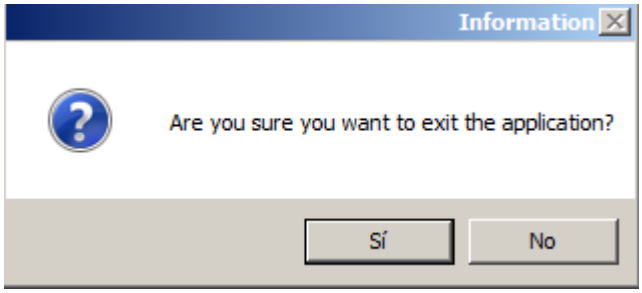

- **Types management**: It belongs to the advanced settings and requires the system administrator password set in the Security option. It allows you to modify some parameters affecting the system functionality.



- On the right of the menu bar you can find the following:




  - **Exit the application**: Allows you to exit the application. Before closing the system, it requests confirmation.

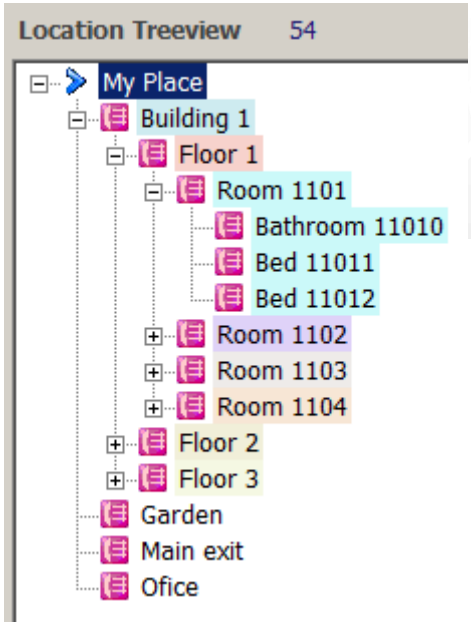


## System set-up

Before starting the registration of the various entities of the system it is necessary to make a number of clarifications to facilitate use of the application.

The system stores information about:

- **Auxiliaries** who operate with the system, they are the professionals in the client´s facility, such as a nursing home or a hospital, providing healthcare service to users and performing facility maintenance tasks.
- **Users** are people who receive a healthcare service and operate with the system through multiple devices.
- **Devices** are all those electronic devices that NEAT offers clients to provide various services. These devices communicate via radio generically and are identified by codes unequivocally.
- **Locations**: It gives the system the knowledge about the layout of the different places of the facility where the service will be provided. Locations are represented as a tree, so that some are contained within others. The root node or parent of all other nodes that make up the different locations, the first node of the tree, should be the installation itself, for example, the name of the nursing home. Thus a hierarchy is formed as in the following example:




Each location has a local name like room "Room 1102" and a full name as well as the possibility to create -> Buildings> Floor -> common areas or access ".

Thus, the fixed devices (WALL, DOOR etc.) may be assigned to a particular location in the case of mobile devices (TREX-2G, D-ATOM etc.) will be assigned directly to the user or professional. Users have to be also assigned to a location (bed1, bed2). When a user is assigned to a location, all devices in that location are automatically assigned to him, so that if an alarm is generated from one of them, the information for that particular user is shown.

As a location may have more than one user sharing a common device (e.g. a Bathroom PULL), all alarms generated by these common devices correspond to those users. In this case, users can also have personal devices that identify each of them individually (Bed 1, Bed 2, D-ATOM, etc.).

Generally, it is advisable to allocate fixed devices (Family Wall, Smoke, etc.) to locations, while mobile units (D-ATOM, UDAT, TREX-2G, FALL, etc.) should be allocated through the user or auxiliary module.

The most common cases of assigning a device to a user are as follows:

- The user is considered a wanderer and is assigned a DATOM or UDAT.
- You want to monitor or control a user accurately and this person will make exclusive use of that device. (Falls, bed etc.)
- You will provide a GSM or GPS mobile tracking device.

Files and alarms

It is very important to understand **the meaning of a record** and how the system groups the different alarms.

A record groups the alarms in the following priority:

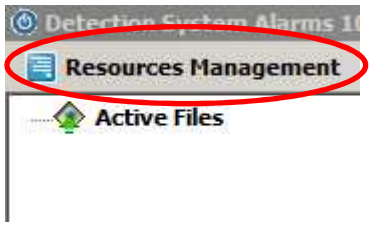
- By User: If an alarm is sent by a device or devices assigned to a user, all alarms arriving from that user will be grouped in a single record till completion.
- By Location: all alarms from devices that belong to a location or group of locations, appear in the same record till completion.
- **By Device:** assigned to a common location (TV room), will generate a record by itself. All alarms generated by that device will be added to the same file and will only appear the TREX-2G alarms that accept the assistance of that alarm.

Therefore, all the actions of the auxiliaries are grouped into the corresponding file according to the attended alarms of User, Location or Device.

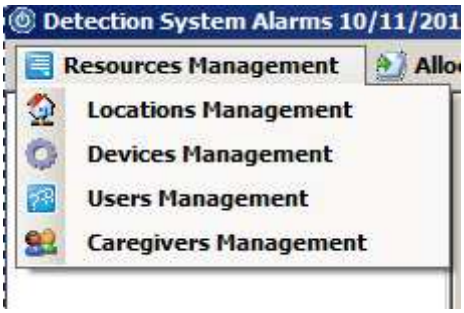
It is advisable to consider the following tips.

- Before registering devices, you should know well the distribution of spaces in which the installation will be realized. This way it is easier to generate a locations tree and the subsequent allocation of each device.

## Resources management



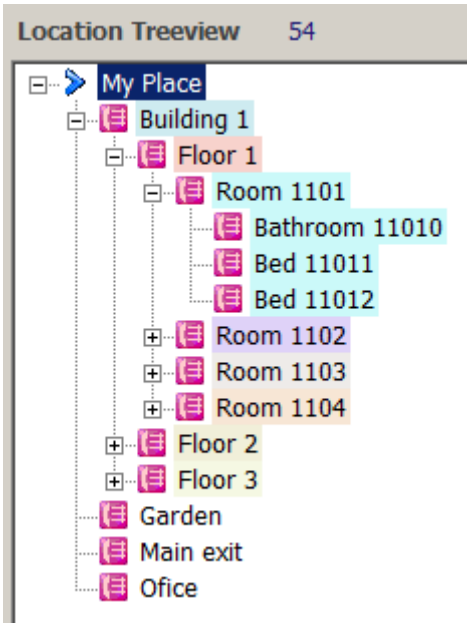

This section is where we will register all the resources included in the center, (Locations, Devices, Users and Professionals).




### Locations management

Before talking about the locations management, a quick review about the concepts previously exposed:

- **Locations**: It gives the system the knowledge about the layout of the different units of the facility where the service will be provided. Locations are represented as a tree, so that some are contained within others. The root node or parent of all other nodes that make up the different locations, the first node of the tree, should be the installation itself, for example, the name of the nursing home. Thus a hierarchy is formed as in the following example:



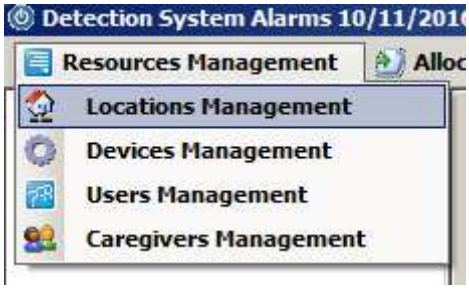

In the configuration we can include -> **Buildings**> **Floor** -> **common areas, entrances etc.**

Thus, the devices may be assigned to a particular location. Users have to be also assigned to a location. When a user is assigned to a location, all devices in that location are automatically assigned to him, so that if an alarm is generated from one of them, the information for that particular user is shown.

As a location may have more than one user sharing common devices (PULL), all alarms generated by these common devices will correspond to those users.

**Remember that mobile devices (D-ATOM, TREX-2G etc.) are not located in any place, these are assigned directly to each of their sections. (Users, assignment of TREX-2G to professional)**

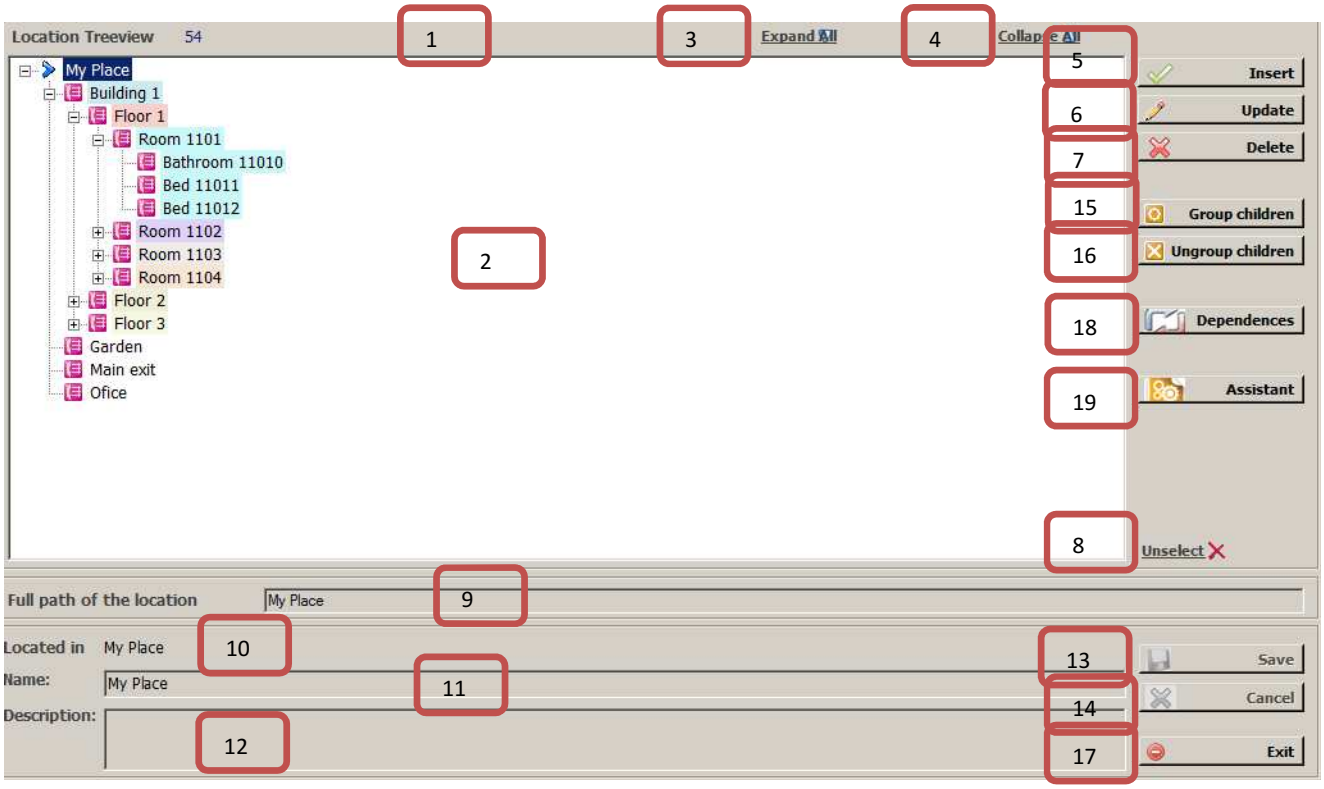
## Locations management




When you click on Locations Management from the Main Menu, a screen with the following data is shown:

1. **Number of locations**, number of sites that the system is going to manage.
2. **Locations tree**, list of locations that shows the hierarchy according to the criteria of the container-content. That is, a room contains two beds and a bathroom, for example, the room is the father of the two beds and bathroom.
3. **Expand All,** lets you display all hierarchies available
4. **Collapse All**, allows showing parents tree locations, also each branch can be contracted by pressing the + symbol to the left of the name.
5. **Insert**, to insert a node or location, it is necessary to select the parent in which the location will be inserted.
6. **Update**, to change the name or description
7. **Delete**, to delete a location or node
8. **Uncheck**, to clean selections
9. **Route**, displays the full name of the location, including locations in which it is contained until arriving to the parent node or root.
10. **Location,** it is the one selected on the tree, it appears selected, it is the one that changes color when you place the mouse on it.
11. **Name**, name assigned to the specific location
12. **Description,** to make comments on a particular place.
13. **Save**, to save the entered data for the location
14. **Cancel,** to cancel an action or a location change.
15. **Group locations**, enables to have a set of locations as if they were one. This feature is explained later. It is what makes some locations have a different color
16. **Ungroup locations,** undoes a grouping operation, or exclude one or more locations in one location.

17. **Close**, to close the Location Management screen, removing it from the list of open tasks on the left of the screen.
18. **Dependencies,** to visualize easily the places occupied in the nursing home.
19. **Assistant**, allows a simple configuration of the locations tree, by selecting the Assistant tab the configuration options are displayed.

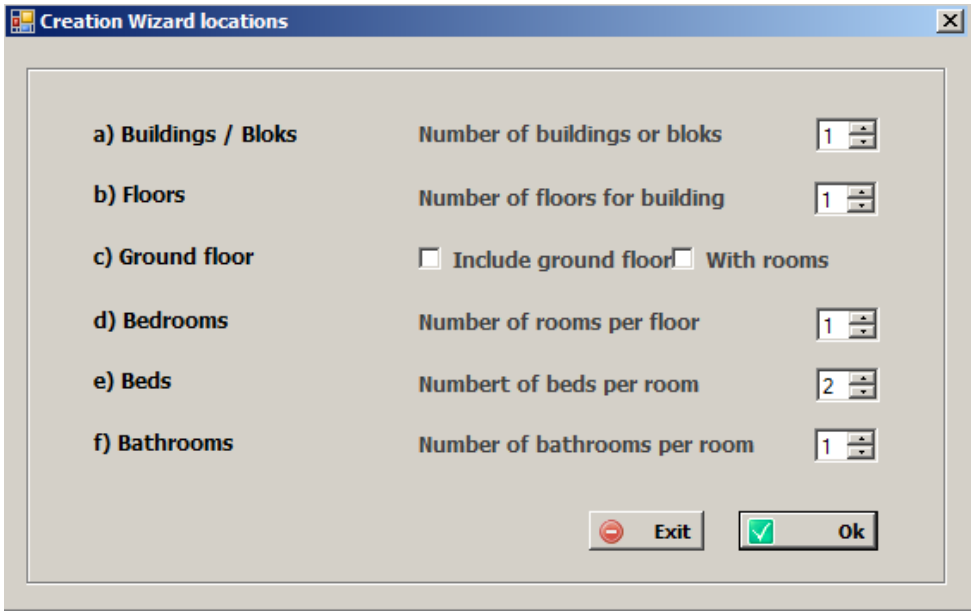



a) Creation of the initial tree:

**This module allows you to create the initial tree where almost all locations will be reflected.**

To do this the assistant module (19) is used


When you click on it, the table for the introduction of facility general data will be displayed, creating the different generic positions in a very simple way.



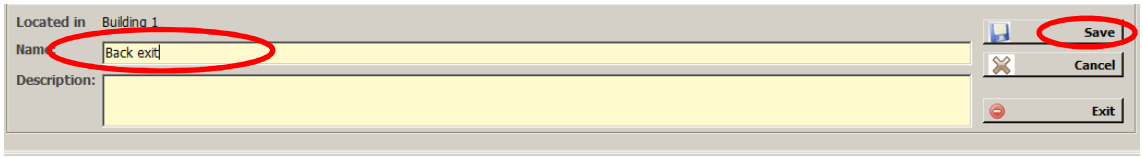

In this table we will select the facility general data.

Common areas may be added manually later, as follows:

**Select which branch of the tree the new location will belong to.**


Then click on “Insert”

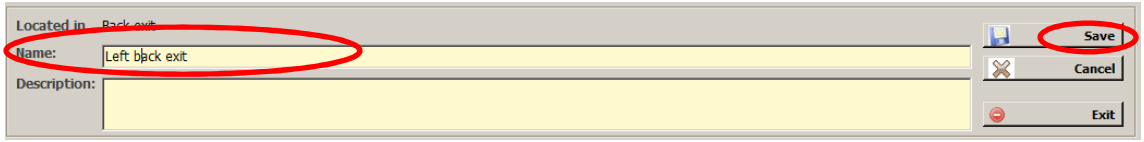
Location fields are enabled; enter data and click on “Save”.




b) How to modify locations

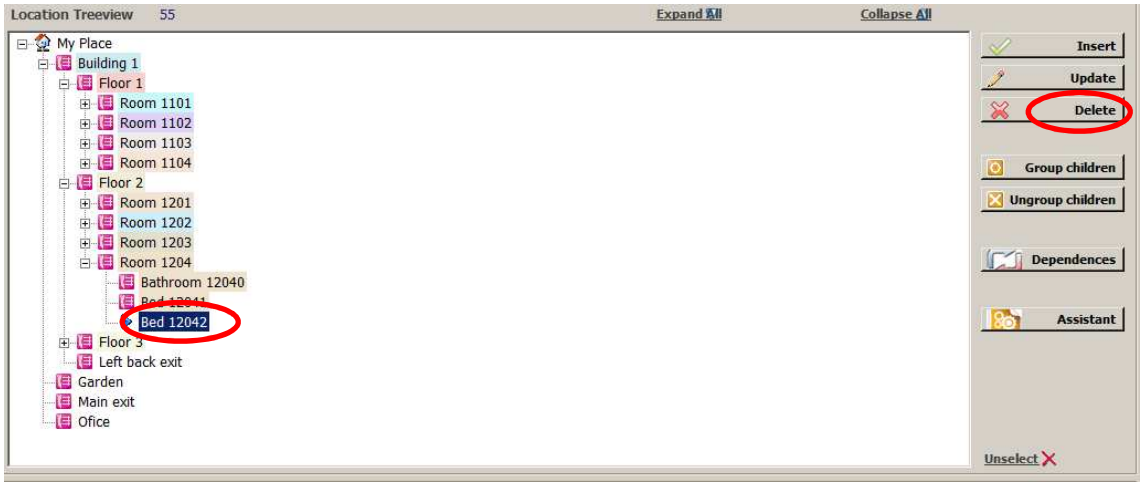
If the system administrator wants to modify a location, he has to select a location and click on “Modify”.


The location fields are enabled again for modification, after making the changes click on "Save".




c) Delete Locations

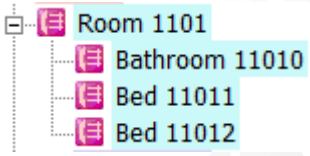
Select the location and click on "Delete". You can delete locations "daughters" (eg: bed 11021), or locations "parent" room 1102, which includes positions "daughters" bed 1, bed 2 bath.




d) Group Children

You can group alarms coming from different devices located in the same room in a single file. All locations created automatically with the ASSISTANT module will be grouped to room level.

Thus if a 3PUSH PEAR is installed in the room for bed 1 and bed 2, with the buttons for time control activated (arrival, leaving) when you press an alarm from another unit, such as Bath "Pull", installed at that location (room), we will be also able to control the times of arrival and departure via 3pushpear unit buttons.

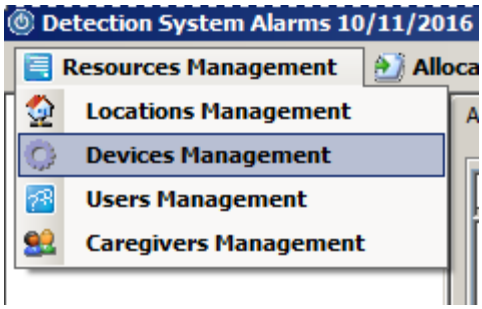



e) Ungroup children: in the same way that the locations are grouped, they can be ungrouped. You can remove a particular location. For example, if you have grouped all sites of a hallway, such as living rooms, bedrooms, bathrooms, etc. ... and because of the hierarchy that the floor distribution represents, there is a room that belongs to the management department and you do not want the alarms coming from that location, as a possible smoke detection, to appear among the records that occur on that floor, may be excluded by clicking on that location and then click on the ungroup button.

**Note: Grouping and Des-grouping of locations can be made at any time. This interferes with the way the alarms produced in those locations are grouped into a file. Also, it affects queries that are made in the reports when filtering by location.**

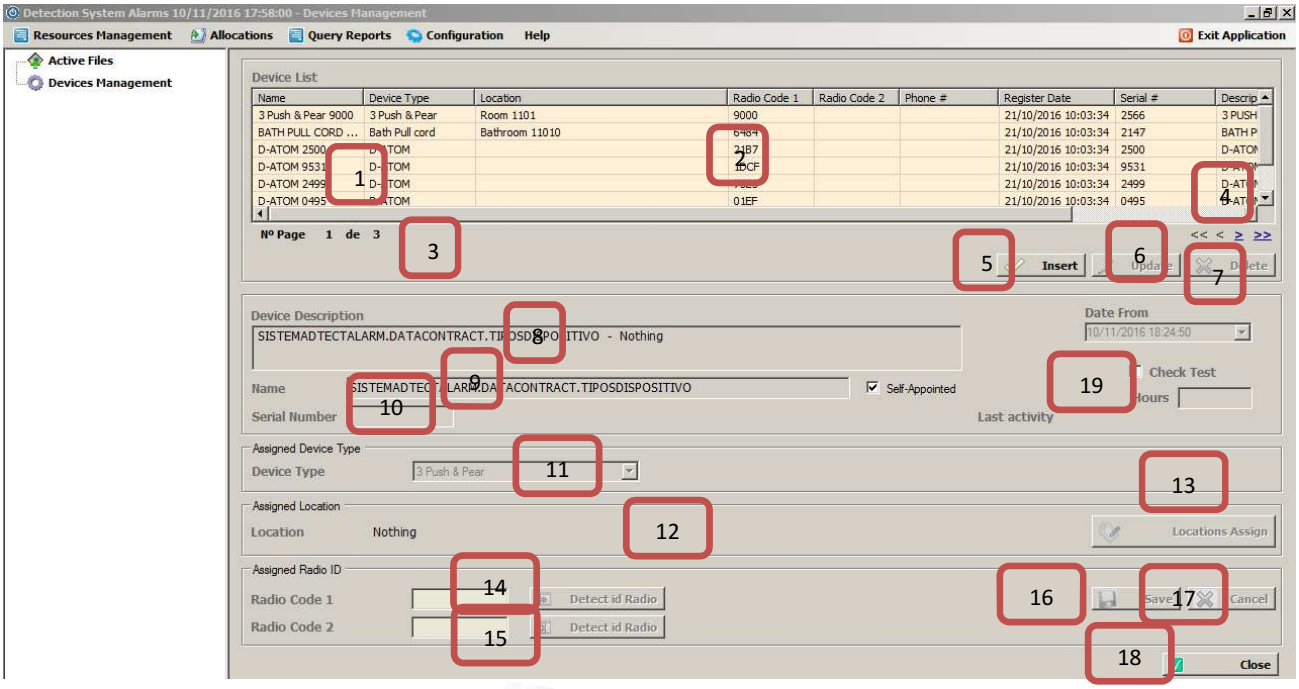
## Devices management

When you click on Devices Management from the Main Menu, a screen with the following information is displayed:



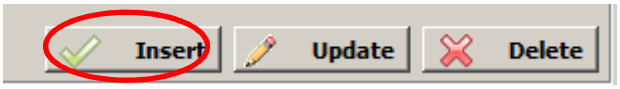

1. Devices list
2. Information about each device
3. Devices paging, shows the page of the list and the total number of pages.
4. Home buttons "<<" Back "<" Forward ">" and End ">>" used to move through the Devices List.
5. Insert, to register a new device in the system. You cannot register a device with the same radio identifier of another one that already exists in the system.
6. Update
7. Delete, to delete a system device logically. The devices currently assigned to a user or to an auxiliary cannot be eliminated until deallocated.
8. Device description allows you to enter a comment about a device, that can be useful. Registration Date, records the current system time by default.
9. Name, is a brief reference that allows you to identify the device, if you do not know what to enter, we suggest to enter the type of device, for example, ATOM and Radio code, ATOM 1234.
10. Serial Number, allows controlling the device.
11. Type of device, configures the type of device that is being registered, it is important not to confuse a device type to another because each has a different behavior in the system.
12. **Location** is required for all **fixed devices** always located in the same place (room, common area), the case of **mobile devices** such as D-ATOM or GSM/GPS tracking devices, **are not allocated to location**
13. Assign Location, presents the location tree to select the location of assignment.
14. Radio ID 1. All devices except the GSM or GPS tracking devices have a radio code. In the TREX-2G the radio code 1 is set as Reset.
15. Radio ID 2. (this function is disabled, leave it blank)
16. Save, registers the device in the system
17. Cancel, cancels the current data entered.

18. Exit, closes the Device Management screen, removing the management screen from the forms list on the left of the screen.
19. Auto-test Management, this space is left blank, the system will automatically enter the settings defined in the device for later follow up.



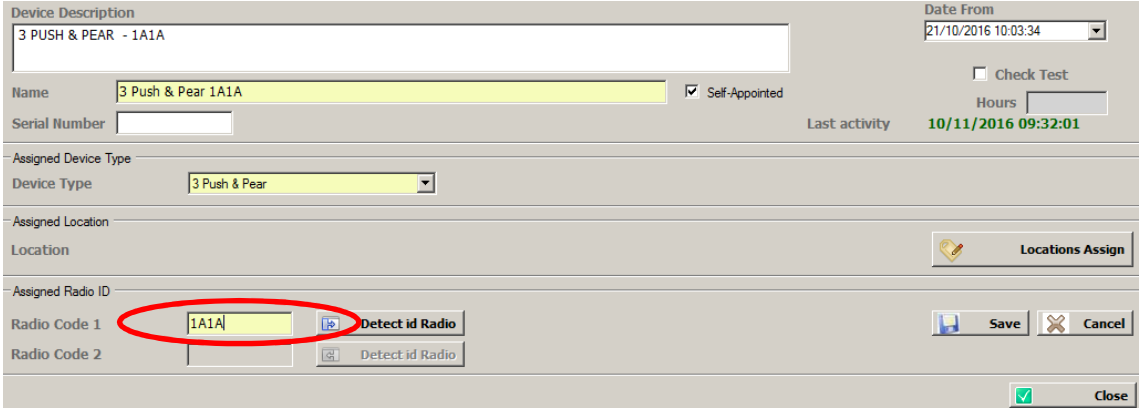

### Insert device

If the system administrator wants to insert a new device, he has to click on “Insert”.




Then, the device type has to be selected:

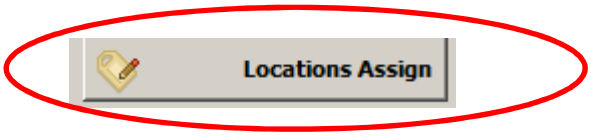
The radio code is captured by clicking on the unit, it can also be entered manually.



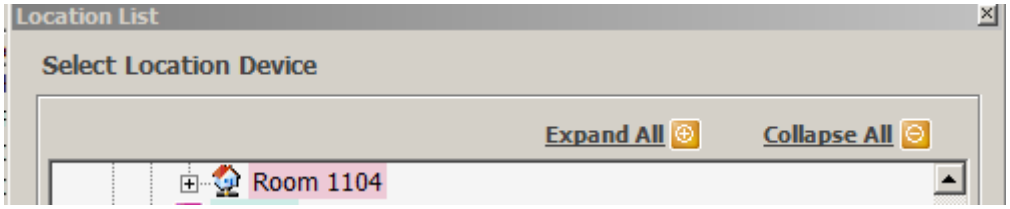
**And then, the location has to be assigned.**

**Locations Assign**

All fixed devices must be assigned to a location, to do it, and at the time of the creation of the device, you have to select the location through the box " Locations Assign ".

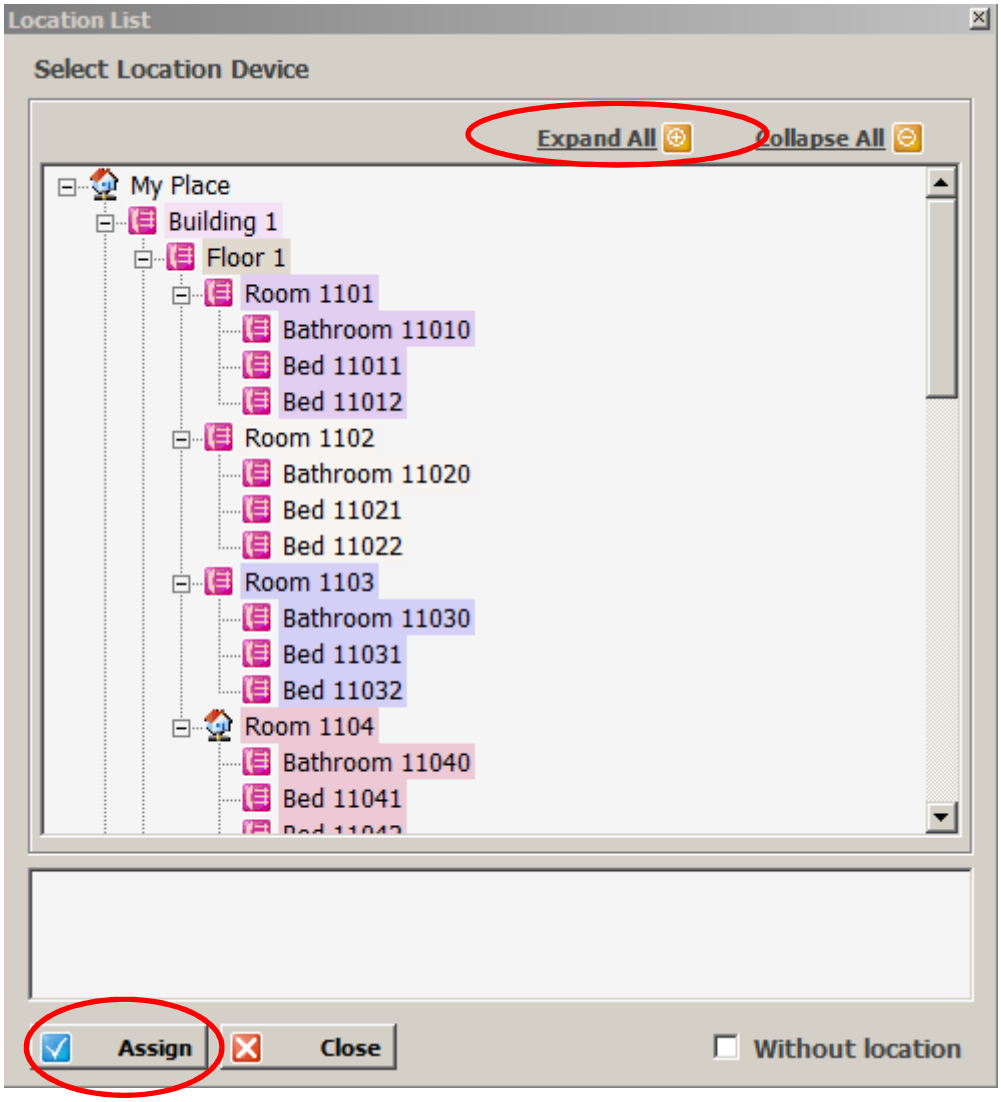



A screen is displayed with an existing locations tree and the "Expand All" and "Collapse All"



**By clicking on "Expand all" the tree can be completely extended. The system**

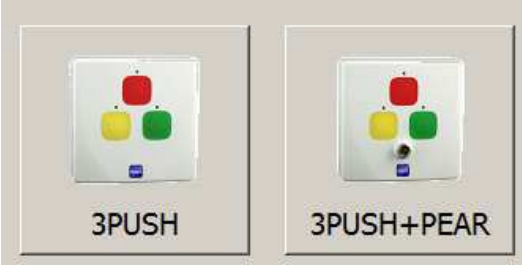
administrator has to select one of the locations and click on "Assign".



You should take into account the type of device, mainly differentiating between:

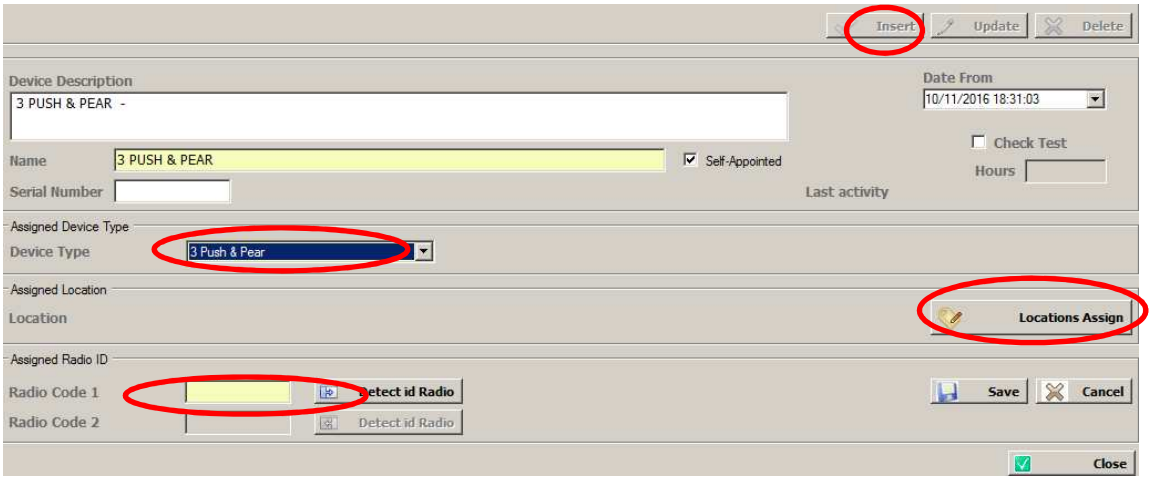
- Room units and common areas that allow registration of service times (3PUSH, 3PUSHPEAR, 3PUSHPEAR AWAY).
- Room units for sending alarms without time recording (PEAR, PULL, etc.).
- Control activity detectors (DOOR, PIR)
- Mobile units (TREX-2G, D-ATOM, UDAT, FALL etc.)

<u>3PUSH, 3PUSHPEAR, 3PUSHPEAR AWAY</u>

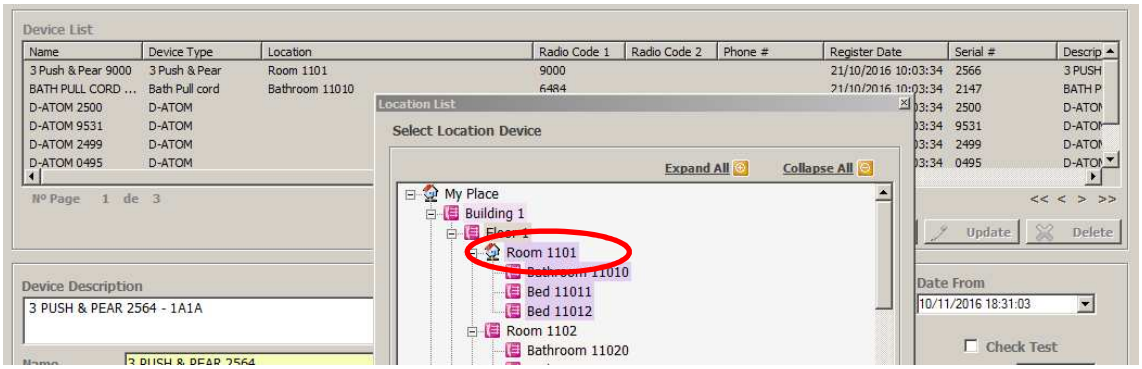



These units should always be assigned to a location with room level and never at a bed level because it is either a unit shared by two users (bed 1, bed 2) or units that allow logging the arrival and leaving at the room where there are also other shared devices (example: Bathroom Pull, bed sensor).

In the registration process you have to check the "Insert" box by selecting the type of device, the radio code is entered and then you have to click on the button “Locations Assign”.

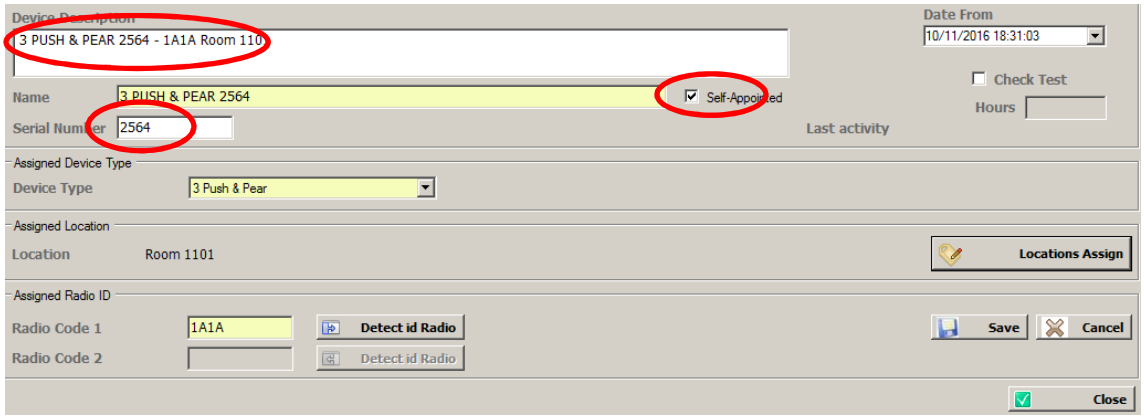


Now, the general locations tree is displayed and select the room level position.

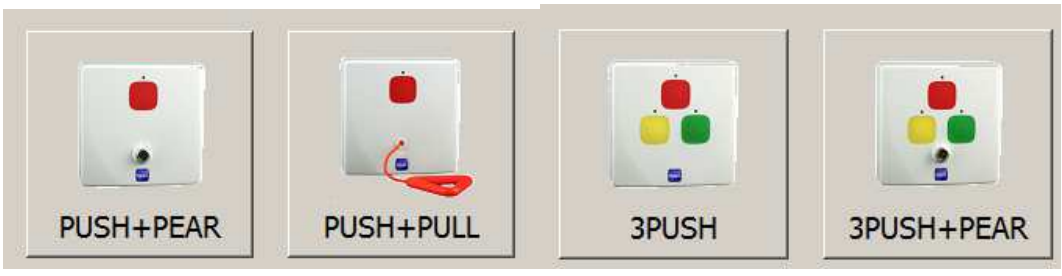



Enter the serial number and click on Save.

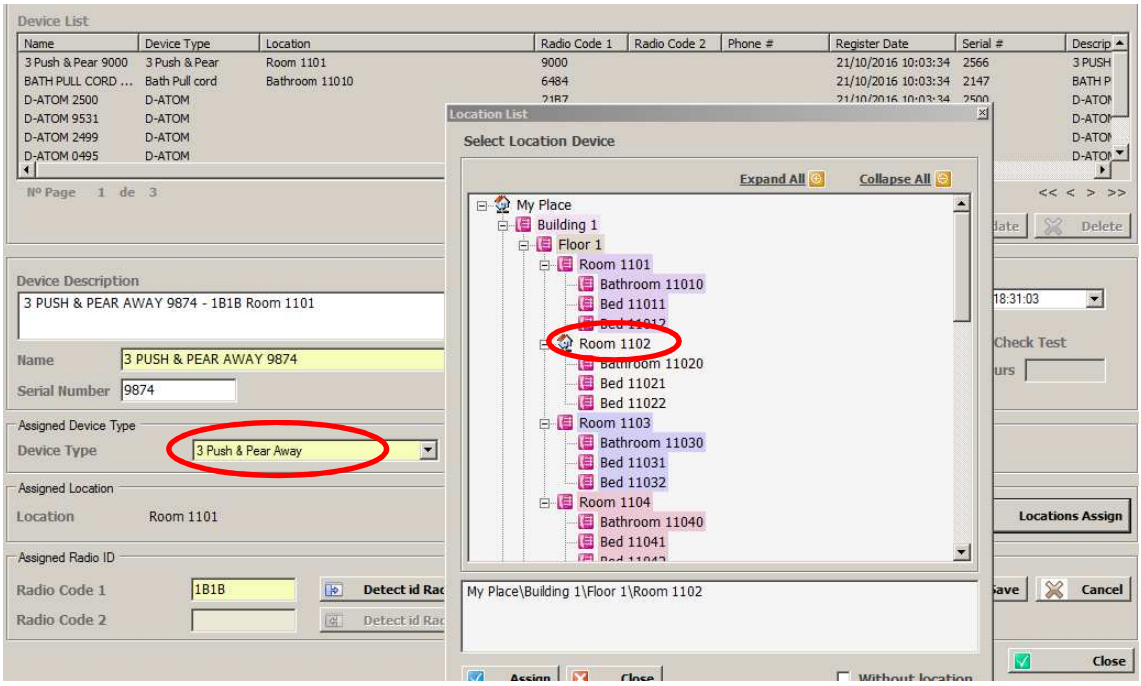
Note: Make sure the Auto Save is enabled, which considerably simplifies device registering as both the serial number and radio code are rewritten in the “Device description”.




**3PUSHPEAR AWAY:**

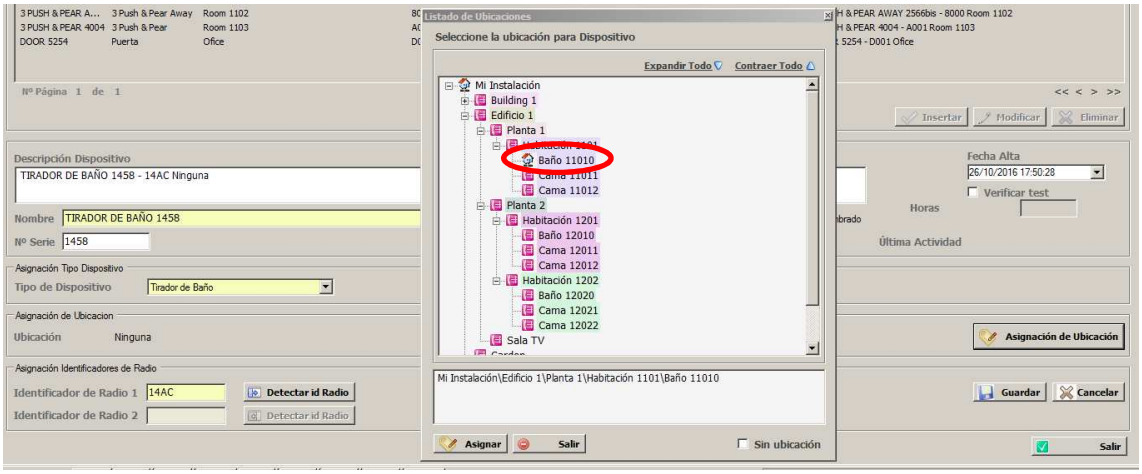



In order to record arrival and leaving **through a single button**, it is included within the application a development that allows applying this logic, so that the first push registers arrival and the second push registers leaving. To do this we should configure the alarm 14, with the button assigned for this recording function and select the 3PUSHPEARAWAY unit in the combo.



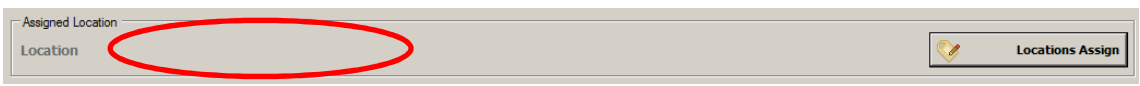

## The rest of devices (PEAR, PULL, DOOR, PIR, etc.).

These devices will be registered through the same process as other devices but will be assigned at a lower location level than room level, as either they belong to a particular user or to a specific place.



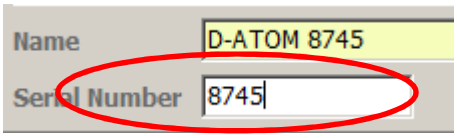

## TREX2G, D-ATOM, UDAT, FALL etc.

The units worn by a user (elderly person or professional) do not need to be assigned to any location.

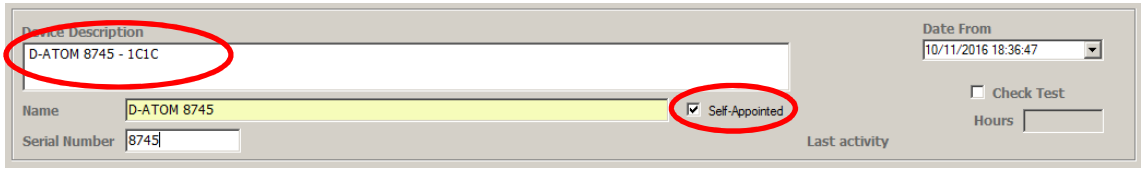


They have to be registered into the system and subsequently allocated to users or professionals through the corresponding modules.

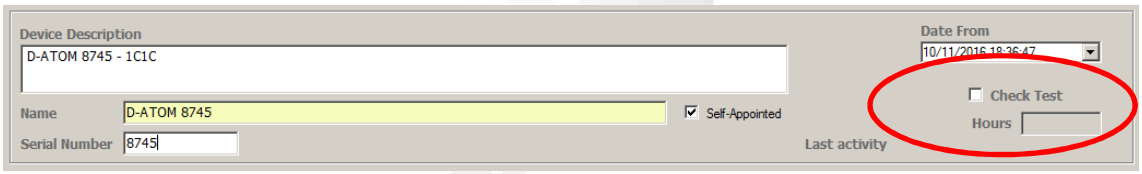
**Then you have to introduce the serial number.**




And click on the "Auto named" box automating data entry in the "Device description" field.

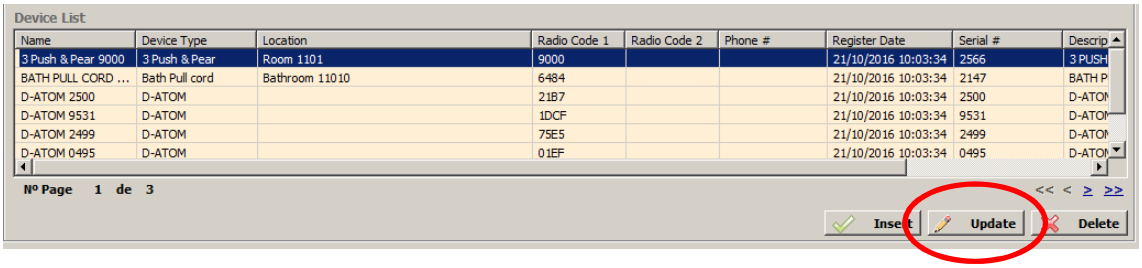



NOTE: The "Auto test" field will be updated automatically by the system, so in the time of the device registering you do not have to enter any information.

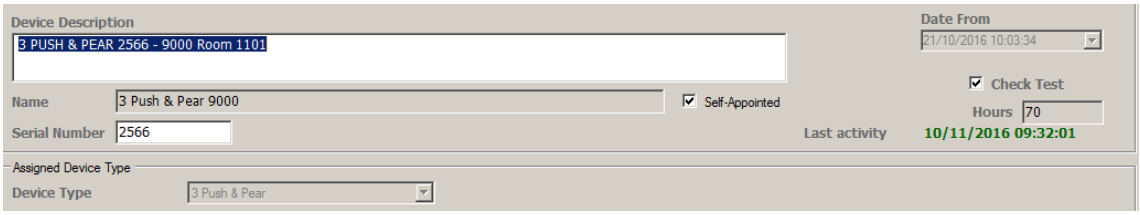



a) Update Device

If the system administrator wants to modify a device, he has to select a device from the list and click on “Update”.



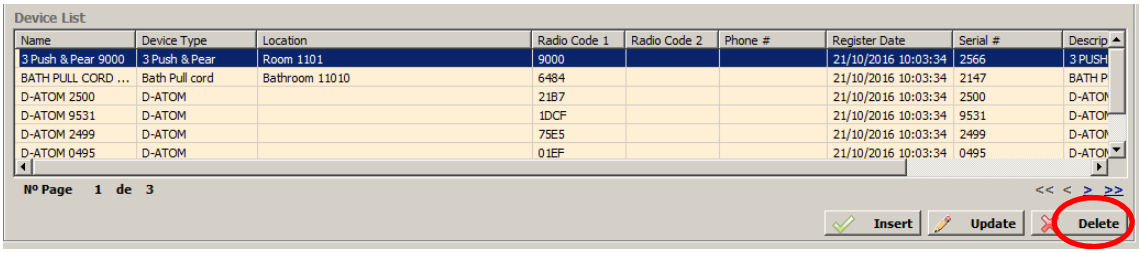

The device fields will be enabled to be modified, these fields will appear in editable format and white color.




Then enter data you want to update. Finally, click on “Save”.


b) Delete device

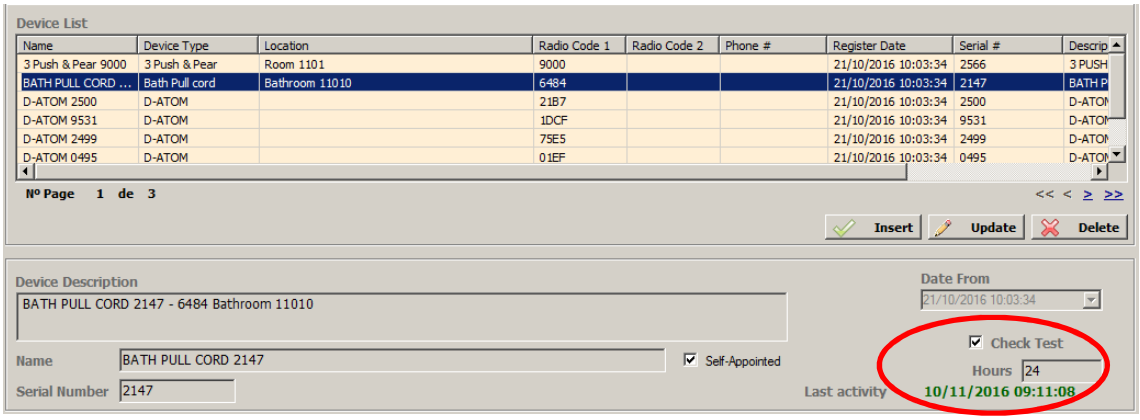
If the system administrator wants to delete a device, he has to select a device from the list and click on “Delete”.



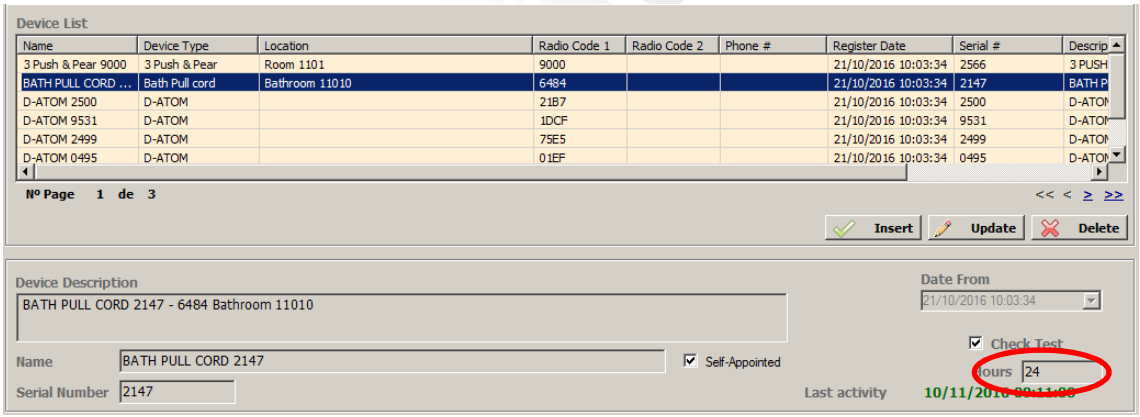
## AUTO-TEST Management

When we register the devices, the system will automatically calculate the time in the auto-test alarm; time that is configured on each device. Generally, a device powered by electric current will be configured every hour, however, the auto-test alarm of a device that works with batteries, will be configured to send the auto-test alarm every 23 hours.

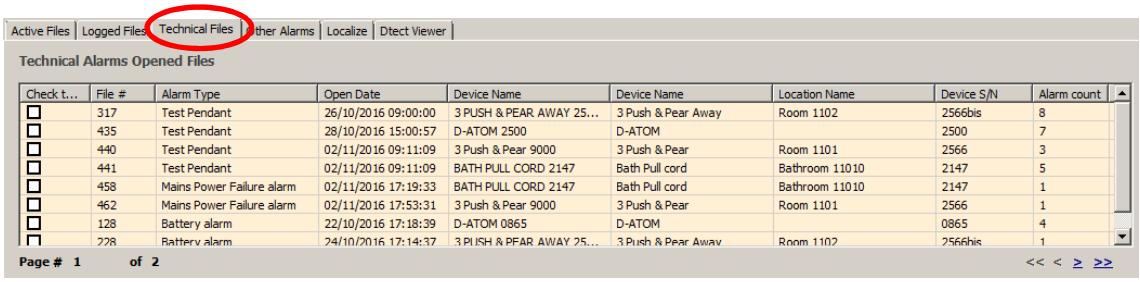
Therefore, when we register a device, we'll leave this space blank. The application will enter the data autonomously.




Then the application will receive the first auto-test alarm and after receiving the second auto-test alarm, introduce you have to introduce the value in the box "time", in this example 24 hours.




Faced with a lack of test, the system records this technical alarm (lack of auto-test) in the corresponding section.



Maintenance personnel can check periodically this section to resolve the various issues that have been received.

Similarly, the maintenance staff can wear a TREX-2G unit configured exclusively for technical alarms, in the case of auto-test alarms, it would be the type of alarm number 24, and the incidence would be notified immediately.

ATTENTION!!! It is important to know that care professionals for the elderly and the sick, who wear TREX-2G units should never have technical alarms configured, because those alarms may confuse them.

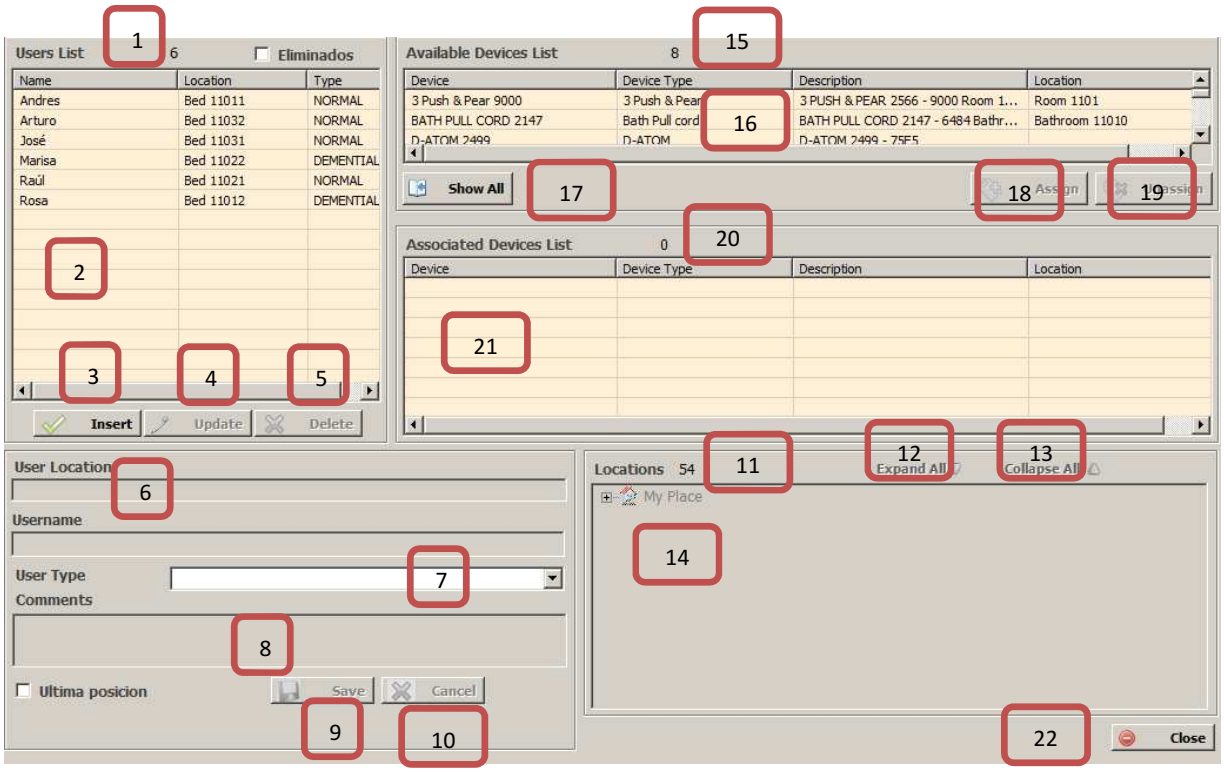
TECHNICAL ALARMS MUST BE CONFIGURED IN SPECIFIC TREX-2G UNITS FOR THIS MAINTENANCE SERVICE (auto- test, low battery, power failure).

## User management

When you click on Users Management from the Main Menu, a screen with the following information is displayed:

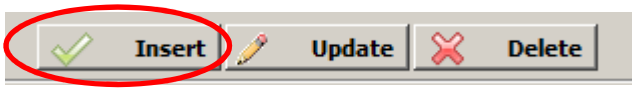
1. Number of users registered in the system
2. List of users, with name, location and user type (wandering or normal). By clicking on the header of one of its columns, the information is ordered according to the criterion that the column indicates.
3. Insert, to register a new user
4. Update, to modify a user registered in the system
5. Delete, to delete a user from the system. A user with assigned devices may not be deleted, they must be deallocated before being deleted. The main use of this restriction is to check if a user leaves the nursing home, if so, he/she must return the devices that have been assigned for his/her attention.
6. Location, shows the complete location to which the user has been assigned.
7. User type, it can be wandering or normal. If a user is going to wear a D-ATOM device, in order to know if he/she goes through a door, he/she must be classified as a wanderer.
8. Comments, provides useful information for the auxiliary or person in charge of the records and alarms. This option can give them information about any special treatment received by the user; they can also record phone contacts of relatives and friends or information on the diet.
9. Save, completes the user registration process in the system.
10. Cancel, ends an operation without making changes.
11. Number of locations, shows the number of locations the installation is made up.
12. Expand all, displays the tree with the different locations that a user can be assigned.
13. Collapse all, contracts the tree.
14. Locations list, shows the locations tree of the installation.
15. Number of devices registered in the system.
16. Devices list, displays a list of devices showing the type, description, and the location where they were located. By clicking on the header of one of its columns it is ordered by the criterion that the column indicates.

17. Show All, shows all existing devices. Clicking on a user from the list, only those devices that have not assigned to him/her are displayed.
18. Assign, adds to the devices list assigned to the user, the device selected. A device assigned to a user, may not be allocated to another.
19. Deallocate, returns the device assigned to the set of free devices.
20. Number of associated devices, displays the number of devices that belong exclusively to that user.
21. List of associated devices, displays a list of devices that only correspond to the selected user.
22. Close, leaves the management auxiliary form, removing the management list that is to the left of the screen.

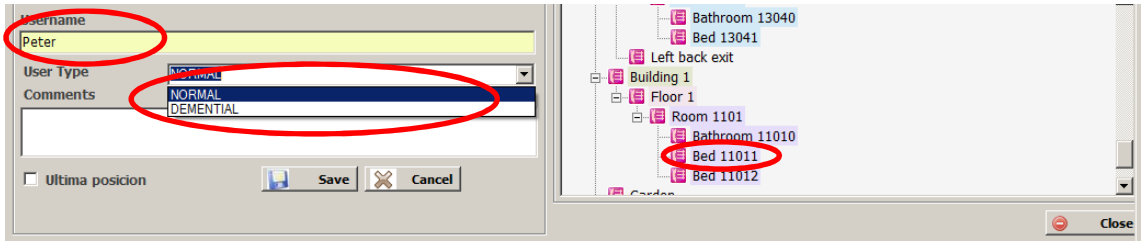



a) Insert User

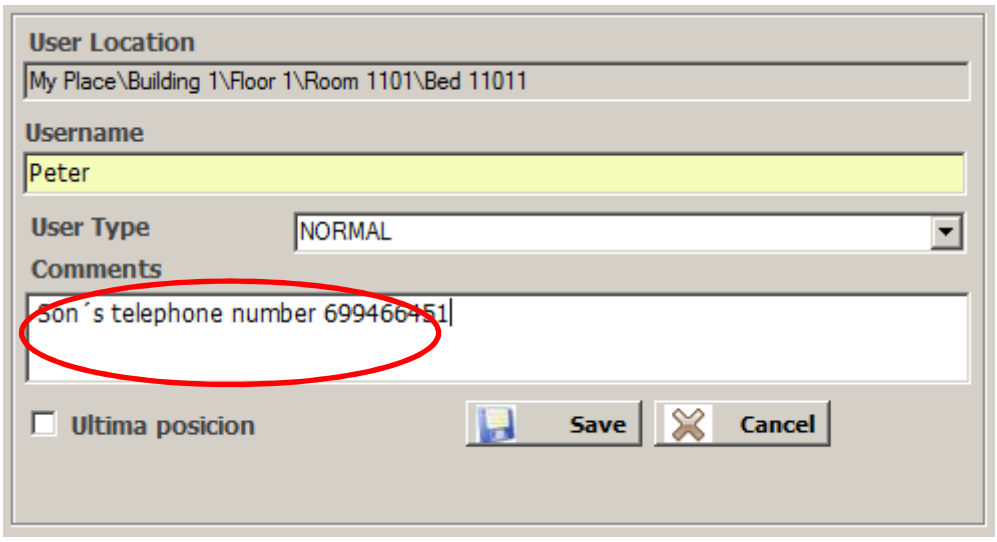
If the manger wants to insert a new user, first, he must click on "Insert", found at the bottom of the list of users.



The name and user type are introduced and the user is located in his/her corresponding bed,




It is possible to complete any relevant user information in the appropriate field.

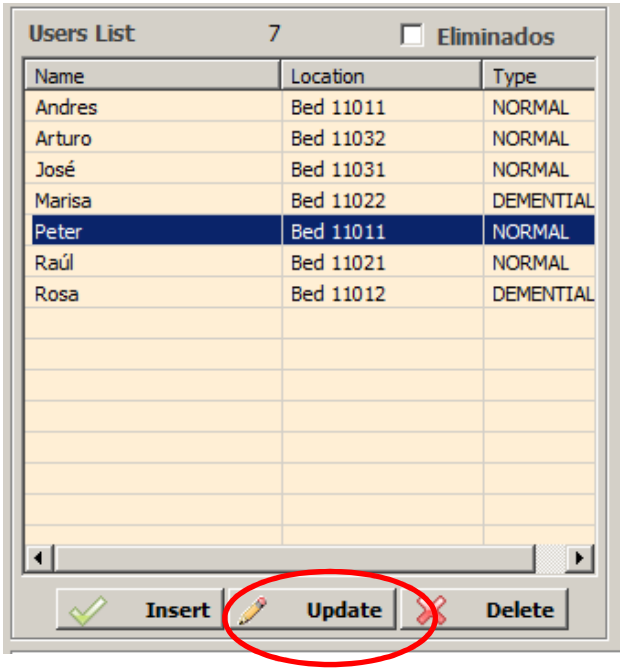



Once the data is entered click on Save

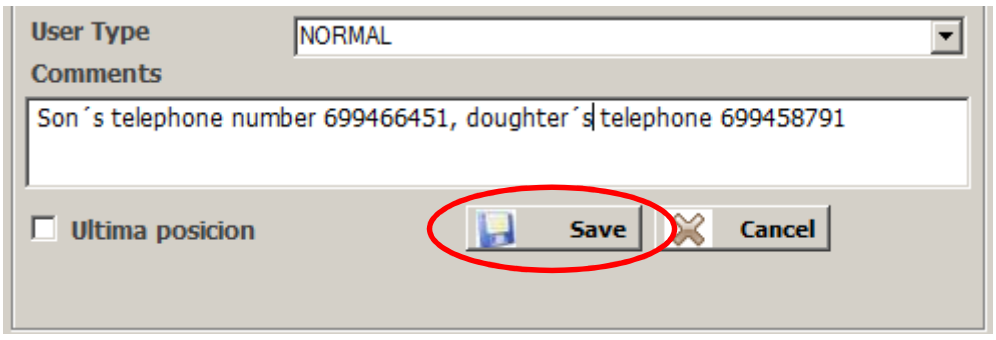
b) Update User

This operation is performed to update relevant user data or changing bed inside the nursing home.

You must select a record from the list of users, then click "Edit" which will be enabled after selecting a user

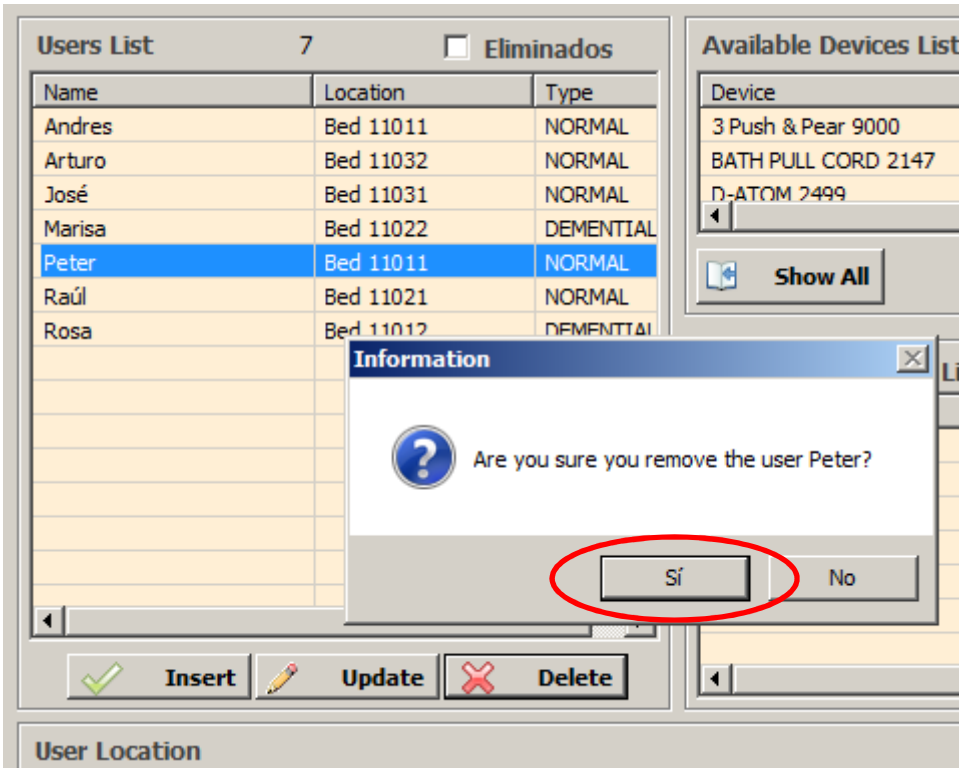



User fields for editing are enabled. Finally, click on "Save"




c) Delete user

If the system administrator wants to delete a user: He must select a record from the list of users and click on "Delete".




**A warning message will appear indicating that the user is being permanently removed. Click OK**

### d) Devices Assign

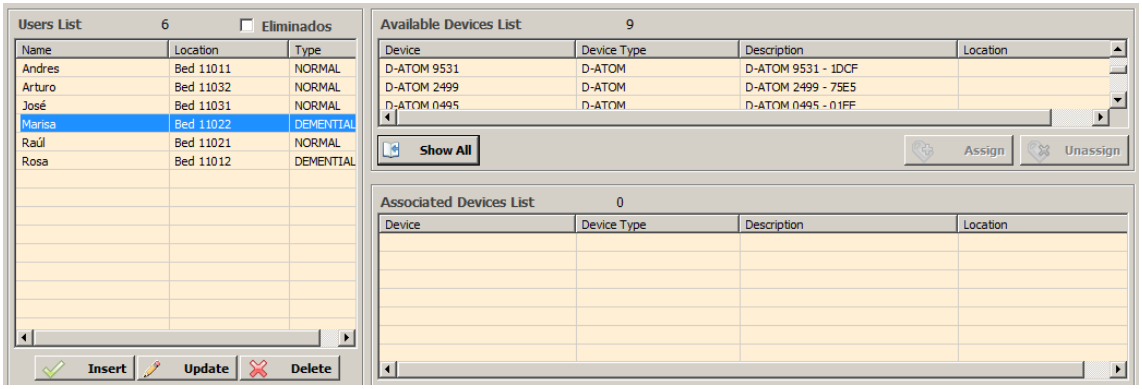
When a user is associated with a location, all devices belonging to that location (3PUSHPEAR, PULL etc.) generate alarms related to that user, without requiring the user has those devices assigned.

The devices must be assigned to users using the following criteria:

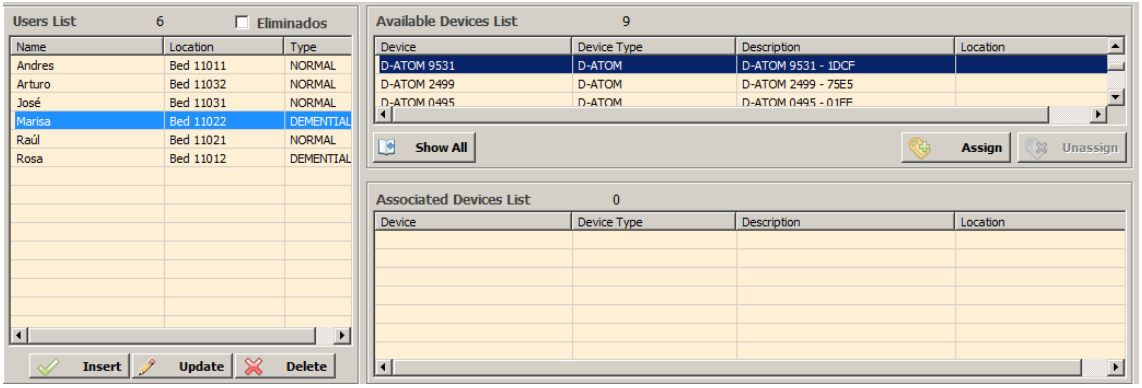
- The user is considered a wanderer and a D-ATOM / UDAT is assigned to him/her
- You want to monitor or control a user accurately and this user will make exclusive use of that device. (FALL, BED)
- The user is going to be provided with a mobile GSM/GPS tracking device

**Allocation Process**

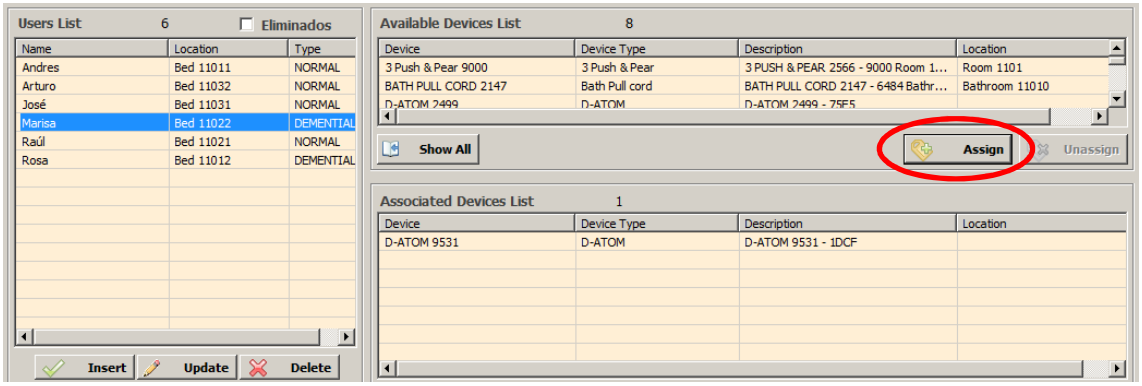
Select a user from the general list,




Select the corresponding device in the general list (usually mobile units)



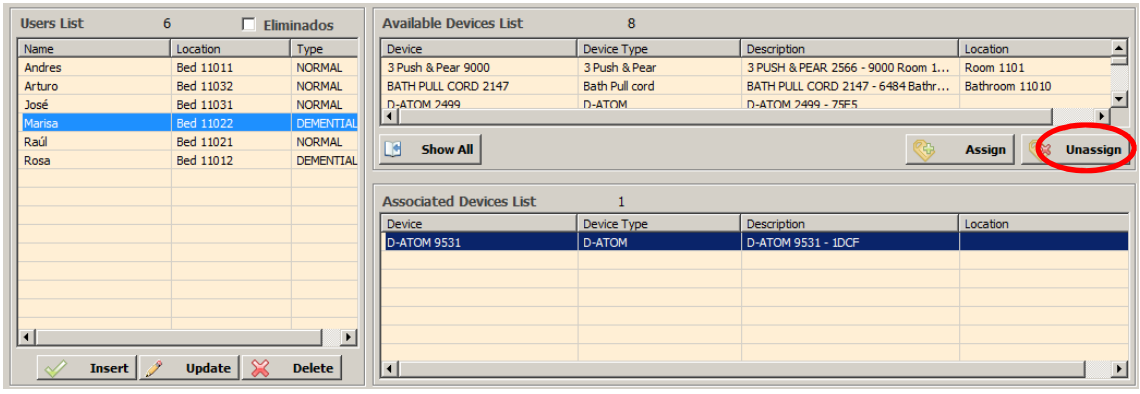

And click on the box "assign", the device disappears from the general list and all alarms that occur from the device will correspond to the assigned user.




e) Unassign a device:

You may also deallocate devices when the user stops using it, which causes the device to be available again in the general listing of devices.

**To do this select the particular user, position the cursor on the device and click the "Deallocate" box.**

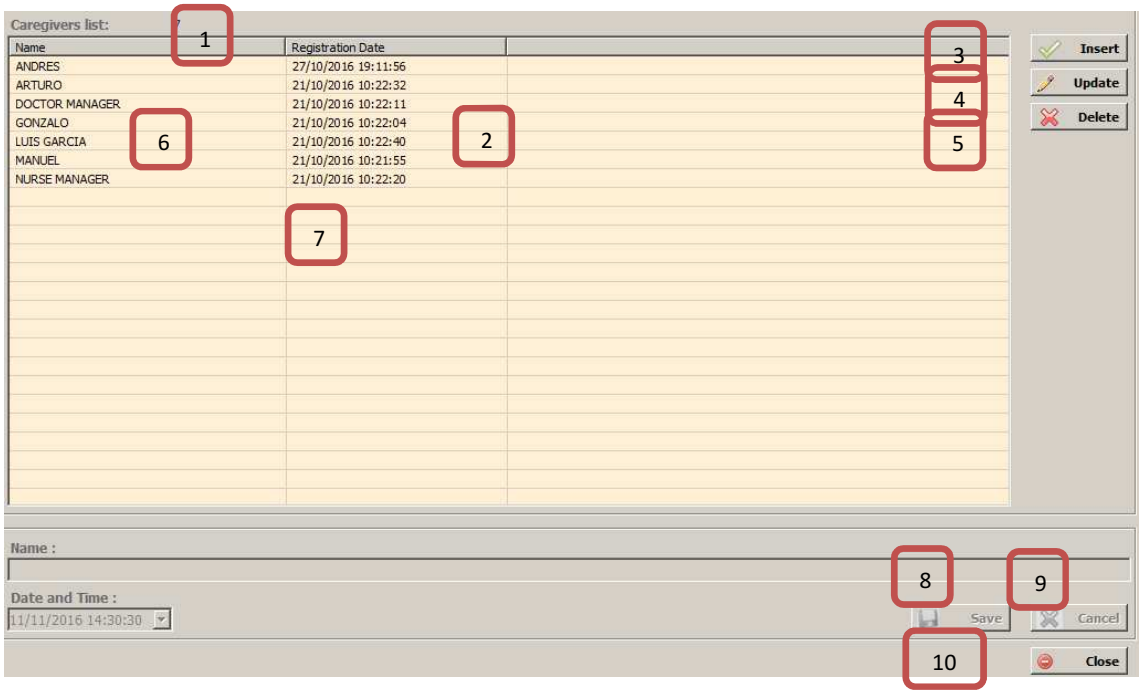



Note: D-ATOM units can be used by professional and users and therefore will be available in both sections, once assigned to one of them, the device will no longer be available in both sections.

## Management Auxiliaries

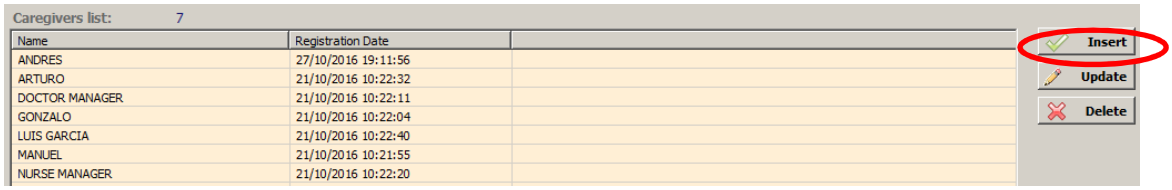
When you click on Auxiliaries Management in the Main Menu, a screen with the following data is displayed:

1. Number of auxiliaries
2. Auxiliaries list
3. Insert
4. Update
5. Delete
6. Name
7. Date and time
8. Save
9. Cancel
10. Exit

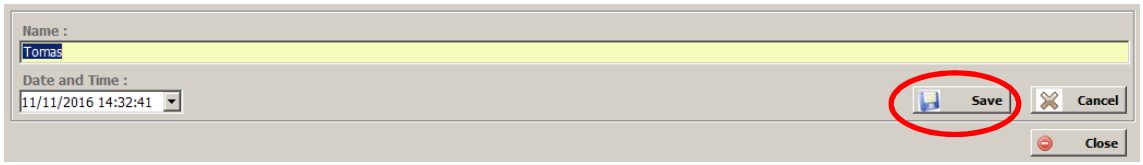


a) Insert Auxiliary

If the system administrator wants to insert an auxiliary, he has to click on “Insert”

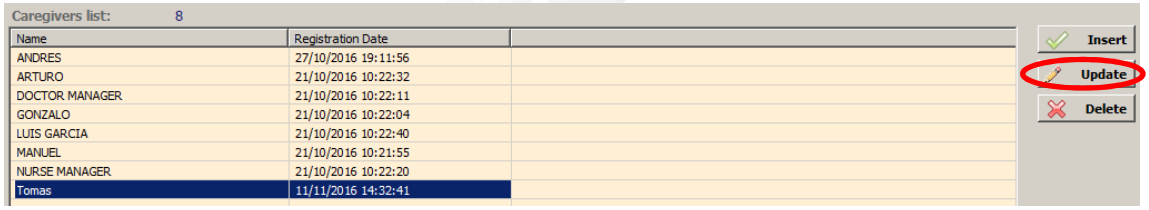



Auxiliary fields are enabled and mandatory fields appear yellow, the data are entered. Finally, click "Save" and the system records the new auxiliary. By default, an auxiliary is registered with the current date as the date of registering. If you want to enter as registering date the date on which the auxiliary started working on the facilities, you have to select it.

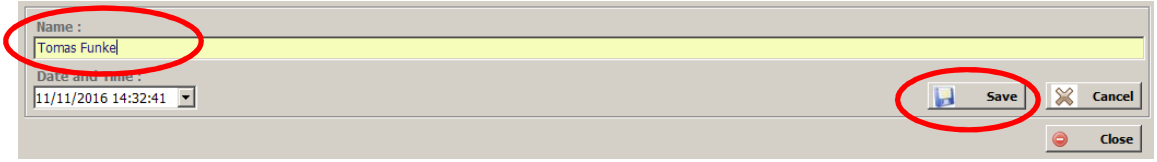



b) Update Auxiliary

If the system administrator wants to update an auxiliary, he has to select a record in the auxiliaries list and then click on “Update”.

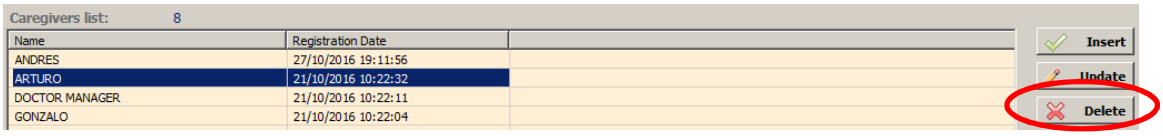



Auxiliary fields are enabled and mandatory ones appear yellow, the data to be updated are entered. Finally, click "Save".

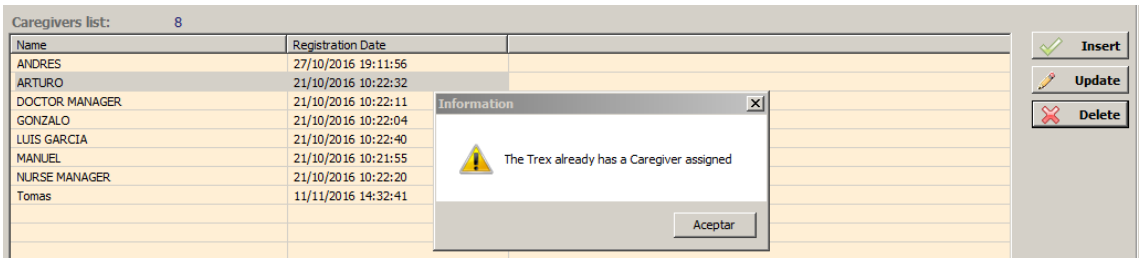


c) Delete Auxiliary

If the system administrator wants to delete an auxiliary, he has to select the record and click on Delete.




An auxiliary who has a TREX-2G assigned, cannot be deleted.

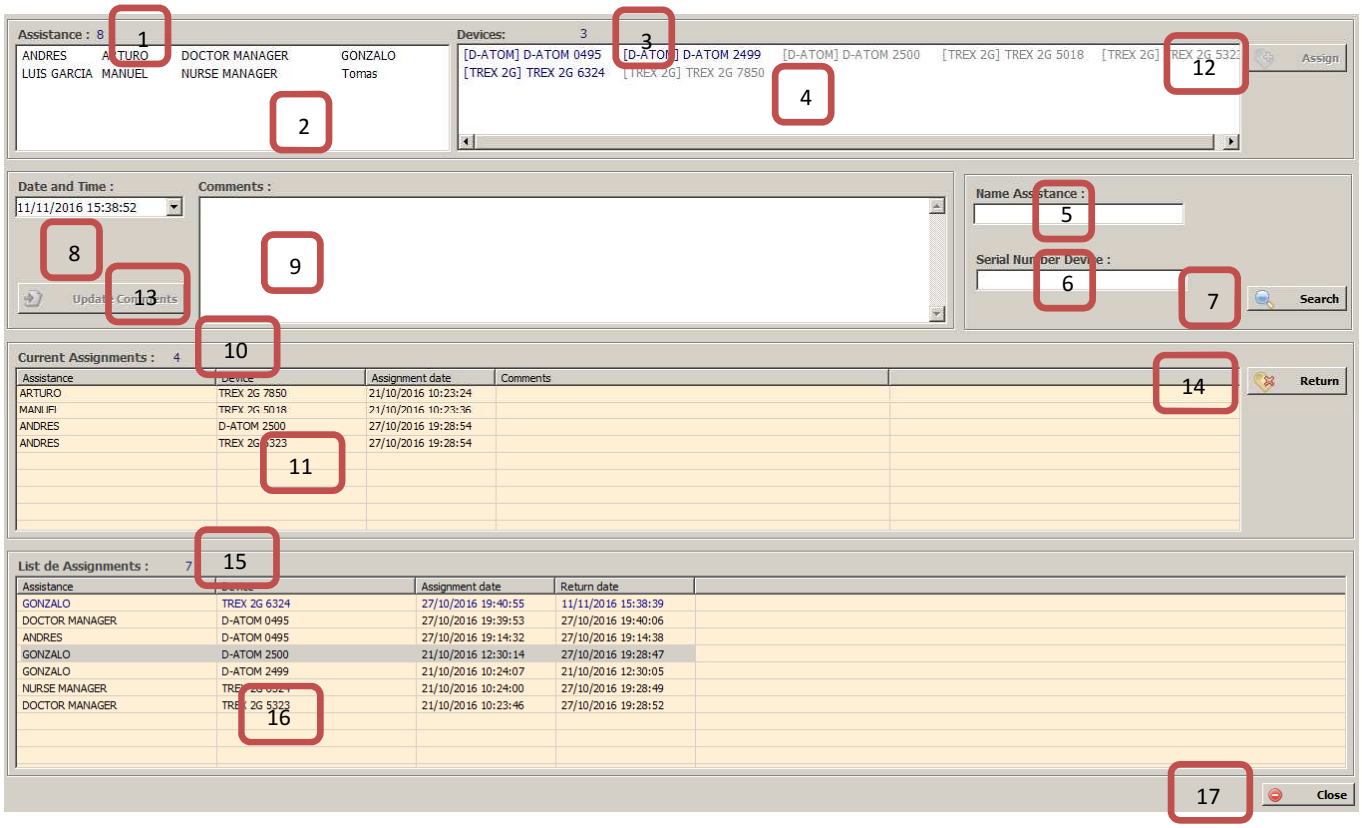



To do this, previously go to the TREX allocation section and deallocate it.

## Auxiliaries allocation to TREX-2G

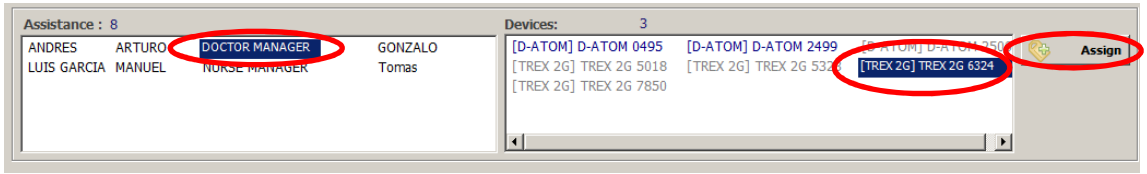
When you click on Auxiliaries allocation to TREX-2G in the Main Menu, a screen with the following options appear:

1. Number of auxiliaries
2. Auxiliaries list
3. Number of TREX-2G
4. TREX-2G list
5. Auxiliary name
6. Device serial number
7. Search
8. Date and time
9. Observations
10. Number of Current Assignments
11. List of Current Assignments
12. Assign
13. Update Comment
14. Return
15. Number of assignments performed
16. Assignments list
17. Close

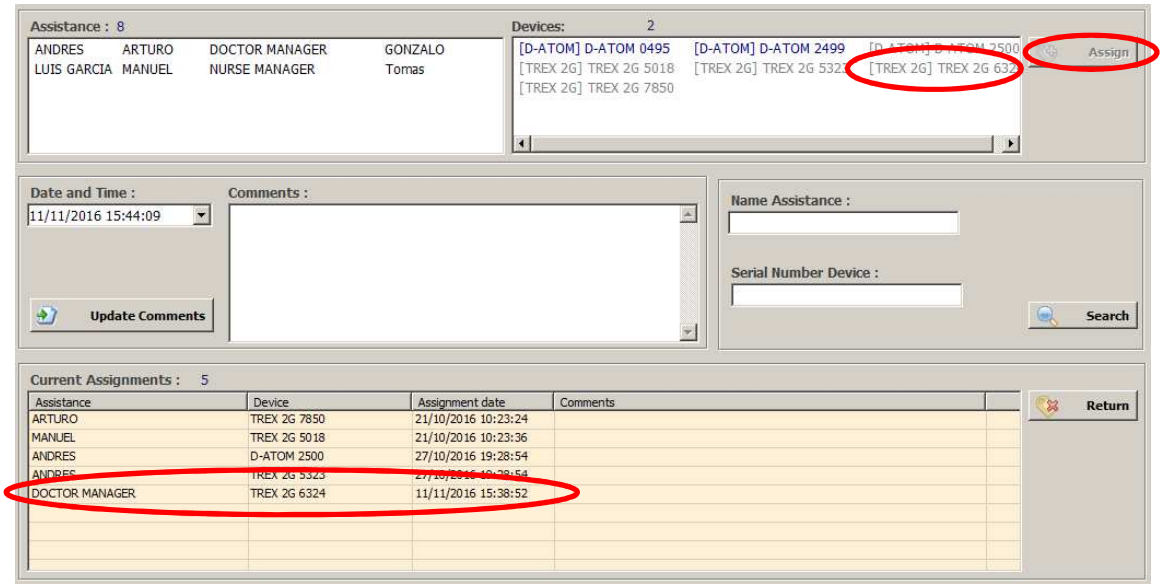



### Assign TREX-2G to Auxiliary

If the system administrator wants to assign a TREX-2G or a D-ATOM unit to an auxiliary, he has to select an auxiliary, select one or more devices from the device list (to select more than one device press Control and click on the device), also enter comments if required. Finally, click "Assign".

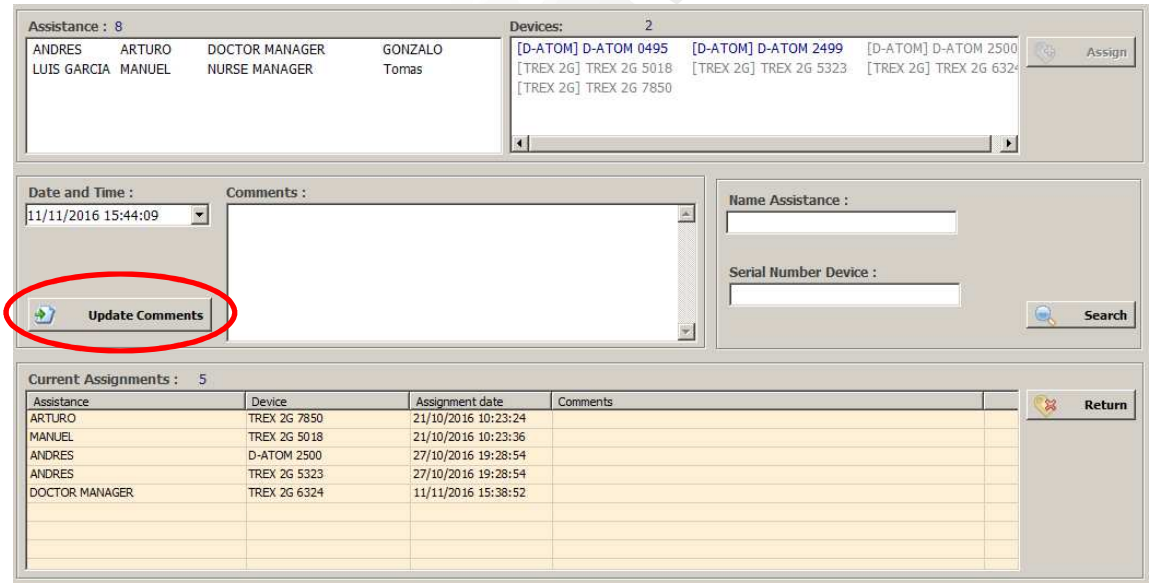



Now, the units are assigned to the professional and are no longer available; the units change color in the general list.



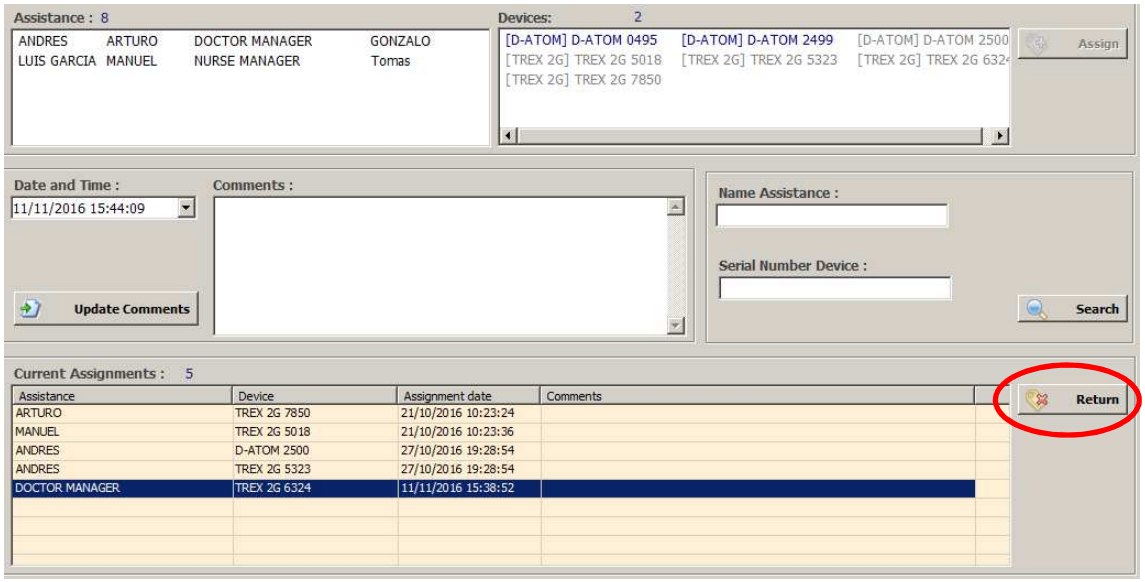

a) Update Comments

If the system administrator wants to update an observation of an assignment, he must select a record from the list of assignments, then enter comments and finally click on "Update comments".

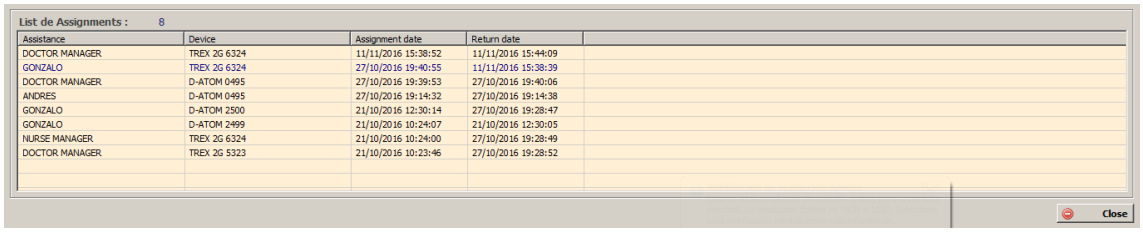



b) Return TREX-2G

If the system administrator wants to record the return of a TREX-2G: he must select a record from the list of current assignments and finally click on "Return". Before returning the unit notes on the observations registered previously can be taken.

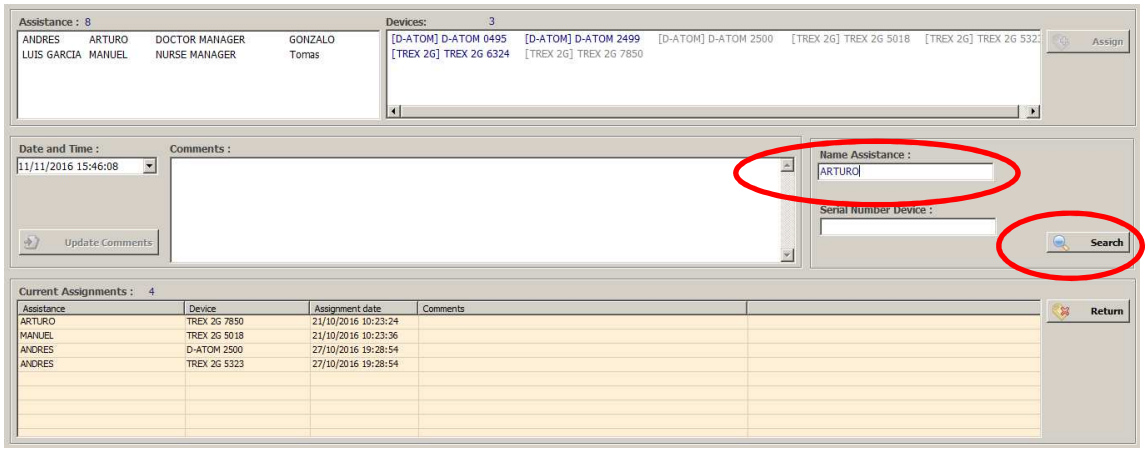



Once the movement is registered in the "Assignments History ", these data cannot be modified.

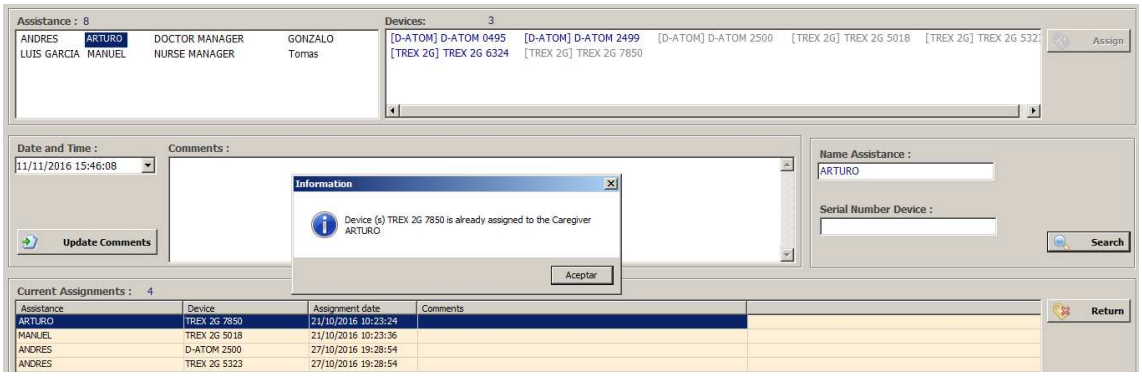



c) Search Auxiliary or Device

If the system administrator wants to find an auxiliary or a device in the respective lists: He has to enter the search filter in the Auxiliary or Serial number fields and then click on "Search".

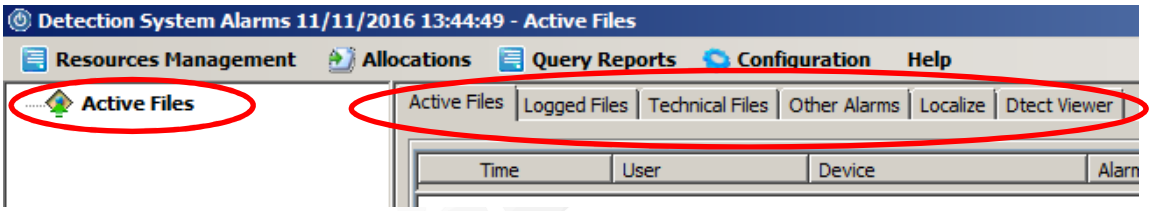


This way auxiliaries and / or devices with search filter are selected.




## Alarms area

When you click on "Active files" in the Alarm Detection System, a screen composed of five (5) tabs is shown.




Alarms are displayed on these tabs, depending on the kind. This screen is always kept open and is updated by new alarms. It also has the functionality to warn about the arrival of a new alarm by flashing and sound.

The tabs are:

a. Active files

b. Files history

c. Technical alarms

d. Other alarms

e. Localization

## Active files

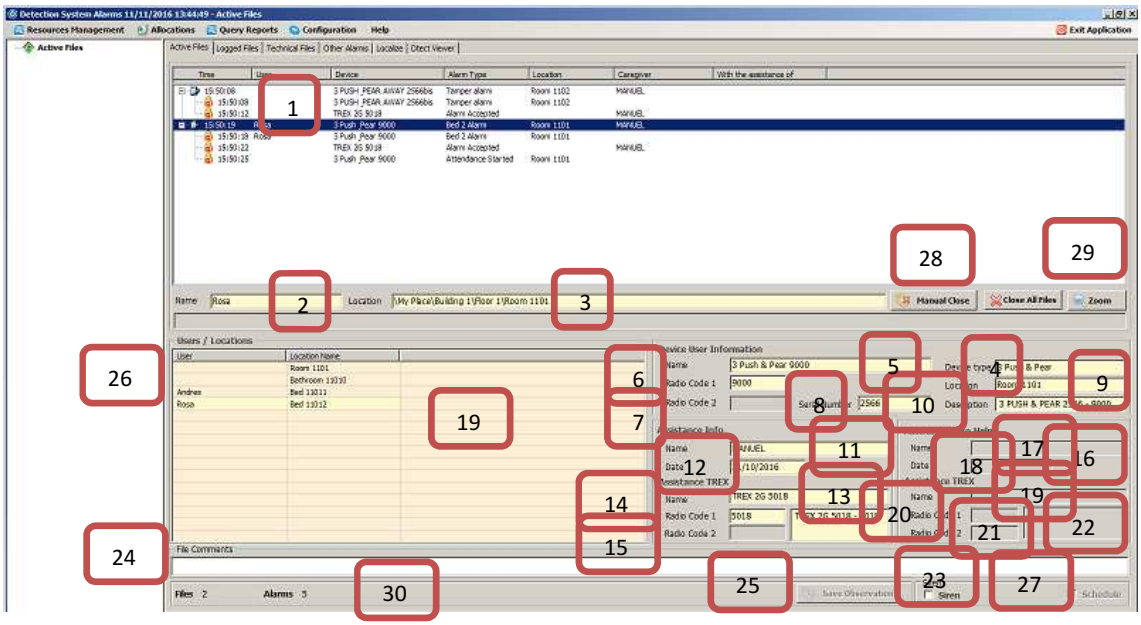
When you click on Active files, a screen with the follow data is displayed:

1. Files tree:  files and alarms data belonging to this tree are displayed.
2. User name
3. User location
4. User description
5. Name of user device
6. Radio Code 1 of user device
7. Radio Code 2 of user device
8. User device serial number
9. User device location
10. User device description
11. Auxiliary name
12. Registering date of auxiliary
13. TREX-2G name of auxiliary
14. Radio Code 1 of auxiliary´s TREX-2G
15. Code 2 of auxiliary´s TREX-2G (not used)
16. Description of auxiliary´s TREX-2G
17. Name of the auxiliary who helps
18. Registering date of auxiliary who helps
19. TREX-2G name of auxiliary who helps
20. Radio code 1 of the TREX-2G of the auxiliary who helps
21. Radio code 2 of the TREX-2G of the auxiliary who helps
22. Description of the TREX-2G of the auxiliary who helps.
23. Activate sound
24. Comments
25. Save comments
26. List of users and its location for the selected file
27. Activation/Deactivation of the active files warning siren.
28. Close the file manually, when you close it, it saves the observation edited at that time, in this case to save the observation, it is not necessary to press the "Save

comments" button. The record you want to close disappears from the list of files and becomes part of the "Records history".

29. Zoom view

30. Number of active files and active alarms




This is the main application screen, where you can monitor in real time all the care activities of the nursing home.
In the list of files, each file is displayed hierarchically with its corresponding alarms hanging from it. The file (1) appears with the time when the first alarm came to it.

Each record will remain open in the queue of files during the time we have set; the file is closed automatically after an elapsed time.

A file can be closed automatically or manually, as configured.
The types of alarms that characterize the system as standard, are as follows:

- Passive alarm
- Door alarm
- Accumulator Alarm
- Low battery warning
- Assault alarm
- Automatic Ready Indication
- Action indication
- Emergency Alarm
- Assistance Alarm
- Accumulator Fully Charged
- Burglar Alarm
- Maneuver
- Alarm Accepted
- Mobile device
- Attendance Started
- Attendance finished
- Acoustic Alarm Stop
- Alarm
- Away
- Battery Alarm
- Bed 1 Alarm
- Bed 2 Alarm
- Bed 3 Alarm
- Bed 4 Alarm

- Bed 5 Alarm
- Bed 6 Alarm
- Button Alarm
- Check device
- DEMENTIAL getting OFF
- Double press
- Event/Report
- Gotten up
- Home indication
- Inactivity
- IOR
- Localize User button
- Long press
- Lying alarm
- Main power restored
- Main Power failure alarm
- Phone call
- Position info
- Position location
- Presence indication
- Radio interference
- Radio out of range
- Radio test alarm
- Radio within range
- Ready indication
- Reminder alarm
- Requested service
- Smoke detector alarm
- Tamper Alarm
- Tamper restore
- Test alarm
- Test pendant
- Tumble
- User alarm form trigger
- User alarm form trigger, battery low
- Wired input 2

1. The states in which a file can be found are:

    2. Unattended
    3. Attended
    4. Assistance Requested
    5. Auxiliary Assisted
    6. Technical
    7. Attention Completed

These states mean:

1. **Unattended:** An open record opened by an alarm caused by a user, which has not been accepted in the TREX unit by any auxiliary.
2. Attended: A user alarm is being attended by an auxiliary.
3. Assistance requested: In the care of a patient an auxiliary may have a problem or need help from a colleague, in this cases he can generate an alarm from the TREX-2G to request help, the rest of the auxiliaries will receive it in their TREX-2G.
4. Auxiliary Assisted: It is the confirmation of an auxiliary to help a colleague who needs assistance. It is also reflected in the record because this auxiliary will also participate in the resolution of this file.
5. **Technical:** this goes to the technical files queue; it does not appear in the user alarm queue. These records are produced by types of alarms configured as technical.
6. Attention Completed: This occurs when a service termination event occurs as in the case of pressing an End assistance unit (Wall Button). The auxiliary indicates that this file should not admit more alarms and that the case he was attending is now closed.

**Control of a record lifetime:**

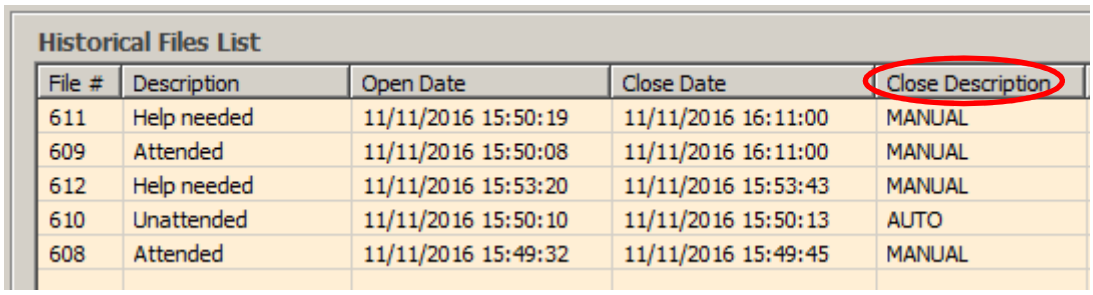
It can be configured for each alarm and depending on the state of the record, the time in which it can remain open.

To do this, there is an internal table, in which is set how long a file will accept alarms and how long it can appear in the alarm queue before being permanently closed and going to historical records.

Therefore, there are three states when a file is closed:

- Accepting alarms: adds all alarms received for that user or location.
- **Closed, in alarms queue:** the file will not accept more alarms as it has already been closed, but still appears in queue to allow the auxiliary, who attended it, to add observations. This closing may be automatic or manual.
- Closed: the record no longer appears in the alarm queue, it appears in the alarm history, and accepts no change

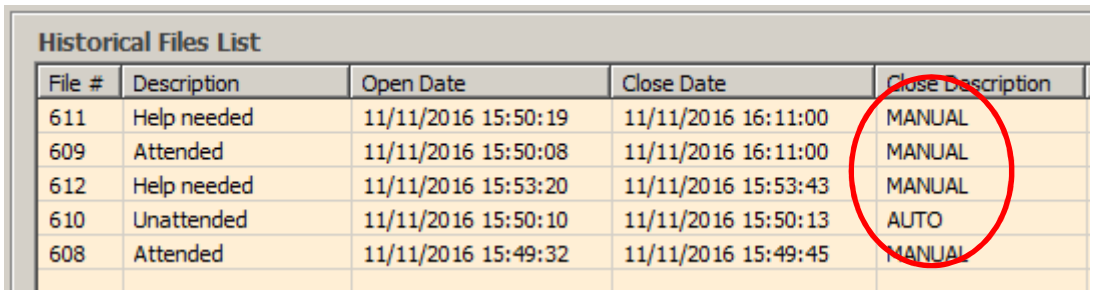
When a file is closed automatically, it also disappears from the queue, becoming part of the list of records history, but automatically, includes a note in comments indicating that the file was closed without being monitored.



Historical Files List

| File # | Description | Open Date | Close Date | Close Description |
|---|---|---|---|---|
| 611 | Help needed | 11/11/2016 15:50:19 | 11/11/2016 16:11:00 | MANUAL |
| 609 | Attended | 11/11/2016 15:50:08 | 11/11/2016 16:11:00 | MANUAL |
| 612 | Help needed | 11/11/2016 15:53:20 | 11/11/2016 15:53:43 | MANUAL |
| 610 | Unattended | 11/11/2016 15:50:10 | 11/11/2016 15:50:13 | AUTO |
| 608 | Attended | 11/11/2016 15:49:32 | 11/11/2016 15:49:45 | MANUAL |

When a file is closed manually, it is indicated in the comments that the file was closed under monitoring.



Historical Files List

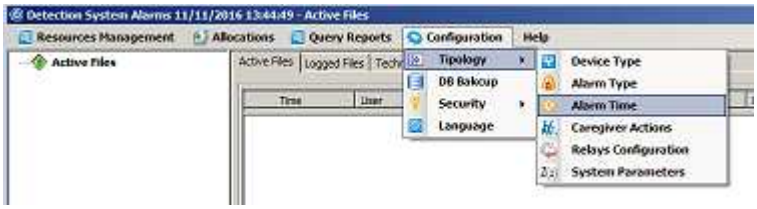
| File # | Description | Open Date | Close Date | Close Description |
|---|---|---|---|---|
| 611 | Help needed | 11/11/2016 15:50:19 | 11/11/2016 16:11:00 | MANUAL |
| 609 | Attended | 11/11/2016 15:50:08 | 11/11/2016 16:11:00 | MANUAL |
| 612 | Help needed | 11/11/2016 15:53:20 | 11/11/2016 15:53:43 | MANUAL |
| 610 | Unattended | 11/11/2016 15:50:10 | 11/11/2016 15:50:13 | AUTO |
| 608 | Attended | 11/11/2016 15:49:32 | 11/11/2016 15:49:45 | MANUAL |

By default, the files are closed automatically. Depending on the type of alarm, you can configure at what time of the operation you want to close, in this example (alarm bed 1) the system is configured to close the file in 2 seconds once the professional pushes completion through the green button that the 3PUSHPEAR unit includes (alarm 15 completion).

Alarm Timeout List

| Timeout ID | Description | Alarm Type | Close Type | State Record | Duration |
|---|---|---|---|---|---|
| 87 | Fin de Asistencia | Attendance Finished | Auto | Assistant helped | 600 |
| 88 | Fin de Asistencia | Attendance Finished | Auto | Unattended | 10800 |
| 89 | Alarma cama 1 | Bed 1 Alarm | Auto | Help needed | 10800 |
| 90 | Alarma cama 1 | Bed 1 Alarm | Auto | Assistant finished | 2 |
| 91 | Alarma cama 1 | Bed 1 Alarm | Auto | Attended | 1800 |
| 92 | Alarma cama 1 | Bed 1 Alarm | Auto | Assistant helped | 600 |
| 93 | Alarma cama 1 | Bed 1 Alarm | Auto | Unattended | 10800 |

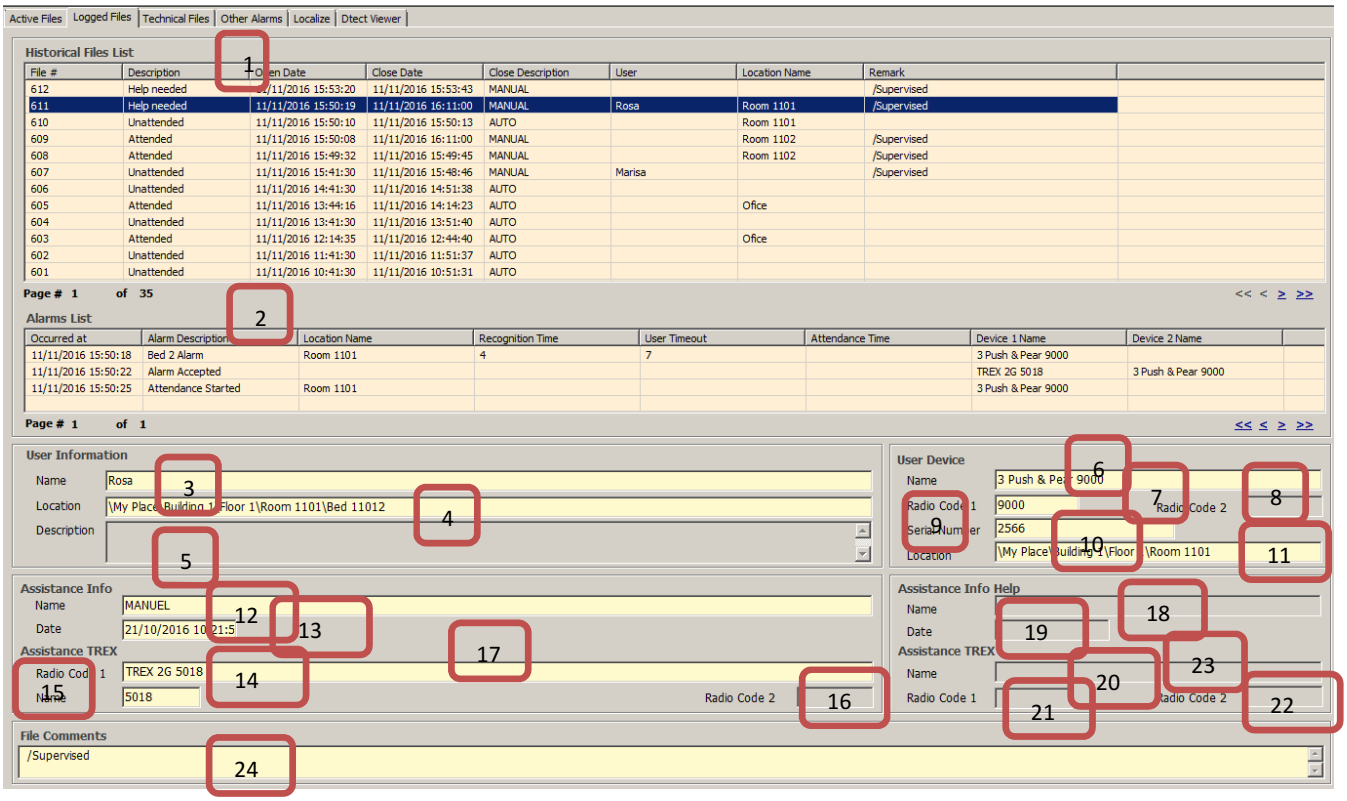
The automatic file closing can be adjusted by a table that must be modified by the installer. In this table you can decide when you want to close the file. Depending on the device, the file may be closed at different times of care.



## Files History

When you click on Files History the following data is displayed:

1. Files list
2. Alarms list of file
3. User name
4. User location
5. User description
6. Name of user device
7. Radio Code 1 of user device
8. Radio Code 2 of user device
9. User device serial number
10. User device location
11. User device description
12. Auxiliary name
13. Registering date of auxiliary
14. TREX-2G name of auxiliary
15. Radio Code 1 of auxiliary´s TREX-2G
16. Radio Code 2 of auxiliary´s TREX-2G
17. Description of auxiliary´s TREX-2G
18. Name of the auxiliary who helps
19. Registering date of auxiliary who helps
20. TREX-2G name of auxiliary who helps
21. Radio code 1 of the TREX-2G of the auxiliary who helps
22. Radio code 2 of the TREX-2G of the auxiliary who helps
23. Description of the TREX-2G of the auxiliary who helps.
24. Comments



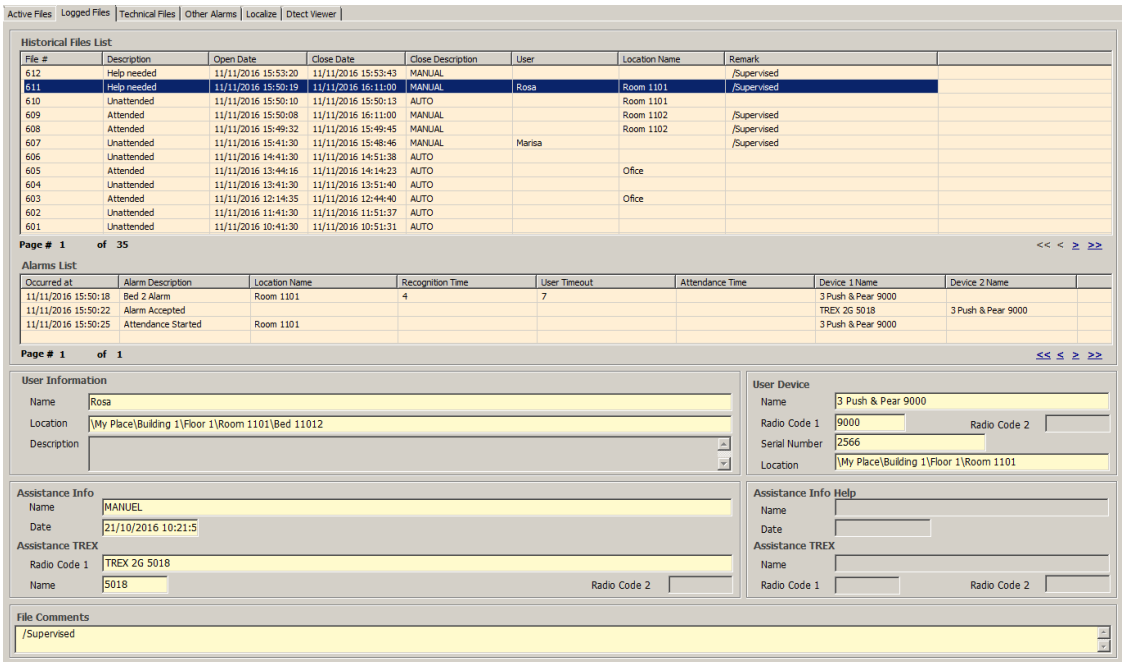

If you click on each of the records you can see the alarms for each file in the list of alarms. In addition, data of the entities associated with that file and the observations made on that file appear at the bottom.

This list shows the user data, device and location for each alarm. In addition, it shows data about attendance times.

## Care quality metrics

For each user alarm, i.e., for each alarm produced by a sensor, by an assistance request or by a service requested by a user, the system calculates the following times:

- Auxiliary Recognition time: time elapsed since the user requests assistance until the auxiliary accepts the assistance in his/her TREX-2G. This metric can help us to know the response time and level of activities of each auxiliary.
- User waiting time: It is the time the user waits since he/she requests assistance until the auxiliary is physically present in the room.
- Attendance Time: it measures how long the auxiliary devotes to the user assistance.




- To establish control of quality of care it is necessary that the facilities are equipped with presence control devices or wall buttons (Wall Family) of which there are several models.

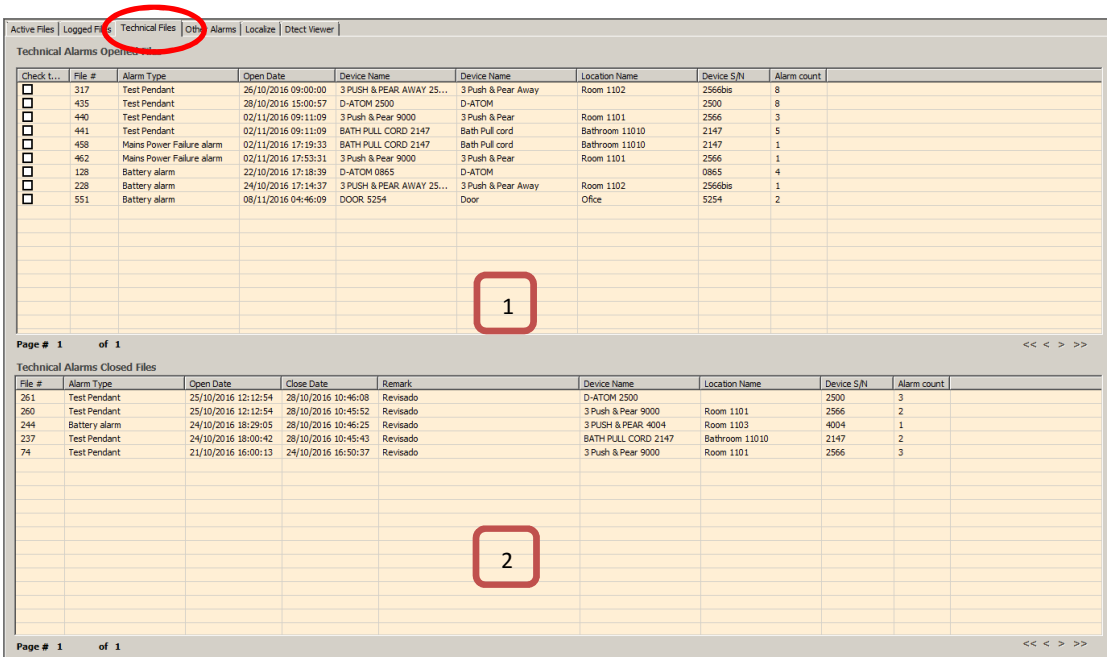
  In this way we can record arrival at the room and leaving of the room, allowing us to analyze the response times.

## Technical Alarms

When you click on Technical Alarms the following data is displayed:

1. **List of open technical alarms**, displays all cases of devices that have a sent a technical alarm that requires monitoring. These data are displayed: The type of alarm, the date on which it occurred, the device that sent it, its location, the serial number that must be taken into account to inform the repair shop if necessary and a counter, called Alarms, which brings together in a single file all alarms sent by a single device. This counter prevents that a device is generating alarms in an uncontrolled way in case of failure.

2. List of closed technical alarms, displays a list of all files that have been monitored, also showing the comments of the technician who has worked on each case.



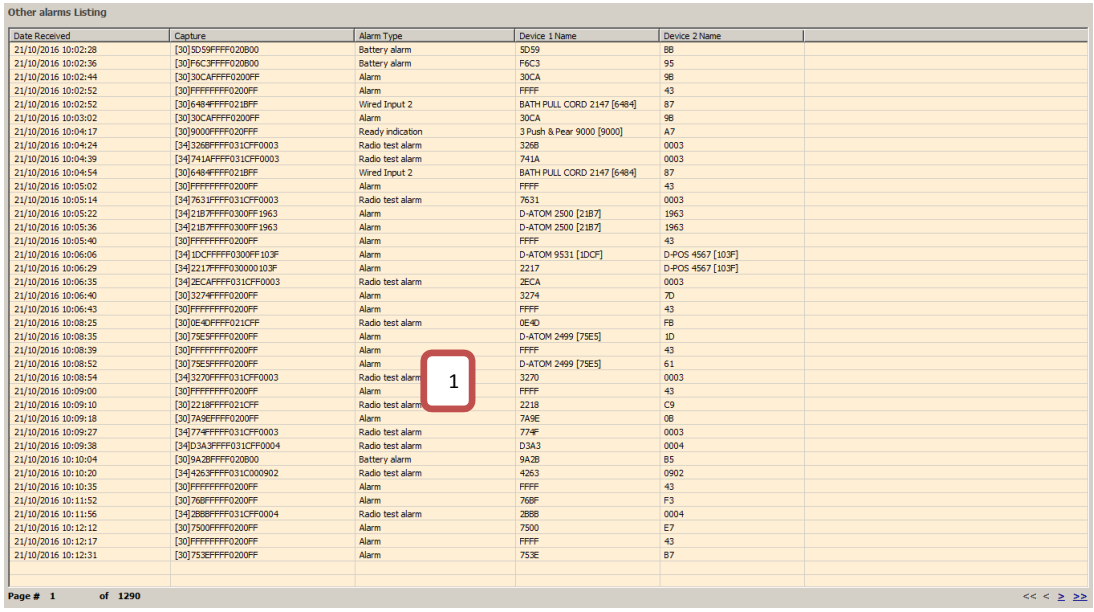

All technical alarms received in the system, generate a technical file on the list of open technical files. This file remains in the queue called "List of open technical alarms" till its monitoring and closing.

When the problem is resolved, you have to close that file manually by clicking on the box "mark to close", at this time you are requested to enter an observation to explain the cause that originated the problem and the solution.

The List of Closed Technical Alarms appears at the bottom of the screen and displays the history of technical alarms produced at the facility.

## Other Alarms

When you click on Other Alarms:




Here, the alarms that the system could not managed are collected:

- Alarms that the system could not interpret, for example, alarms from a new device that the current version could not recognize.
- Alarms from devices not registered in the system; it can also help identify a device not registered in the system.
- Alarms containing errors; it can help identify a device malfunction.

You can see the date and time at which the signal was registered, a summary of the alarm data capture, the interpreted alarm type and name of the device that sent it, if known, if not, the interpreted radio code. The name of device 2 is the name of the device that could be associated with that alarm or the radio code, if not known, if only two digits are displayed, it is possible that this does not mean anything.

This screen is designed to help detect configuration errors in the application devices.

## Localization

Locates a user wearing a tracking device. The search will be performed with the NEAT SLI (Integrated Positioning System) platform.

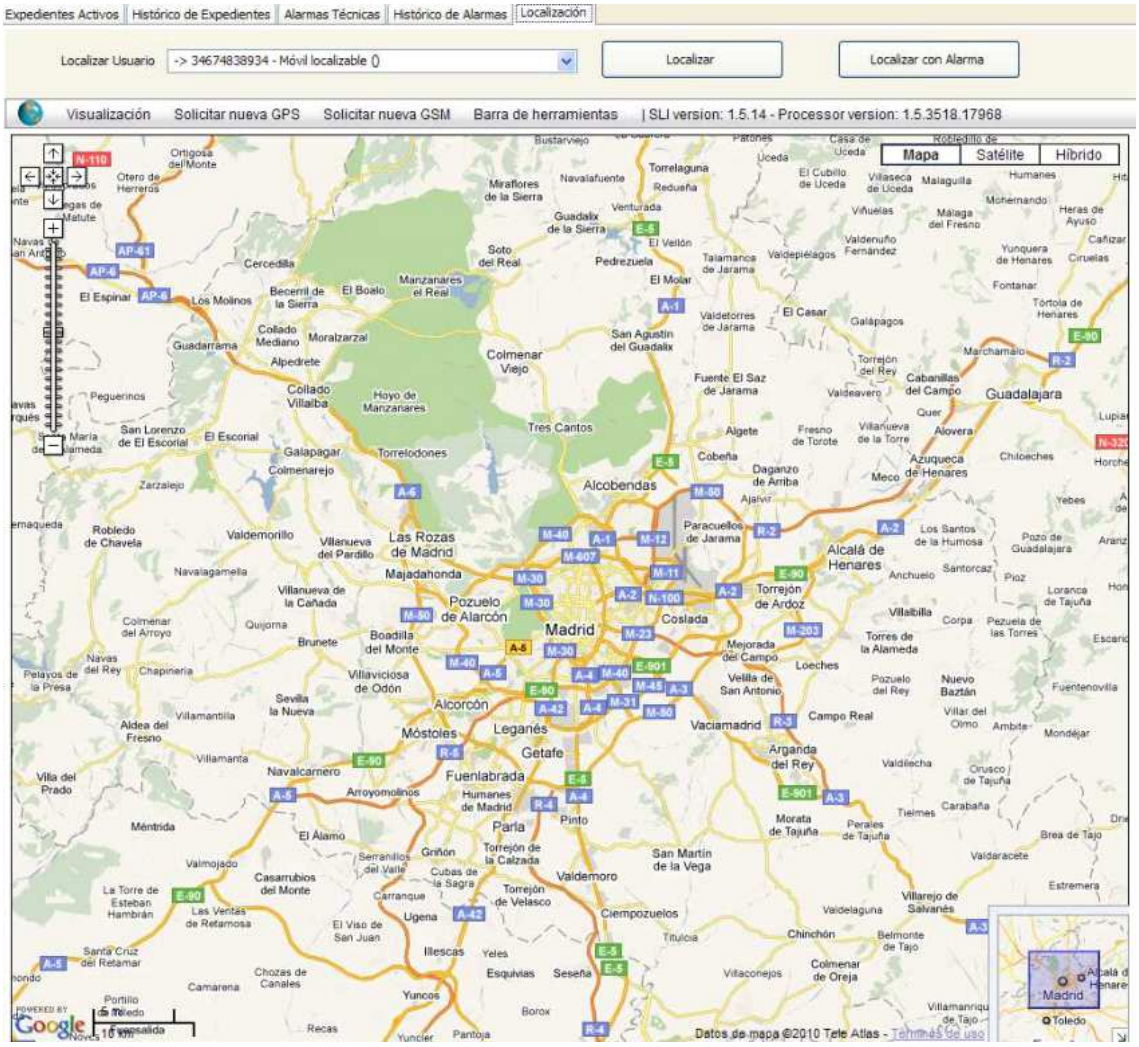
In the "Locate User" option all locatable devices known by the system are shown. If the device has been assigned to a user, the name of the user who has the device assigned to him/her will also appear. It is important to make the link between the device and the user on the User Management screen. If you provide a user with a device without making the link, you will not be able to know which user has that device.

The location system has two options:

- Locate: Displays on the map the last known location of a device, showing the date and time for that location.
- Locate with Alarm: performs a geographical search of the device generating a record in the Active Files queue, which allows to record that a search for a user was made. A message like the following is displayed:

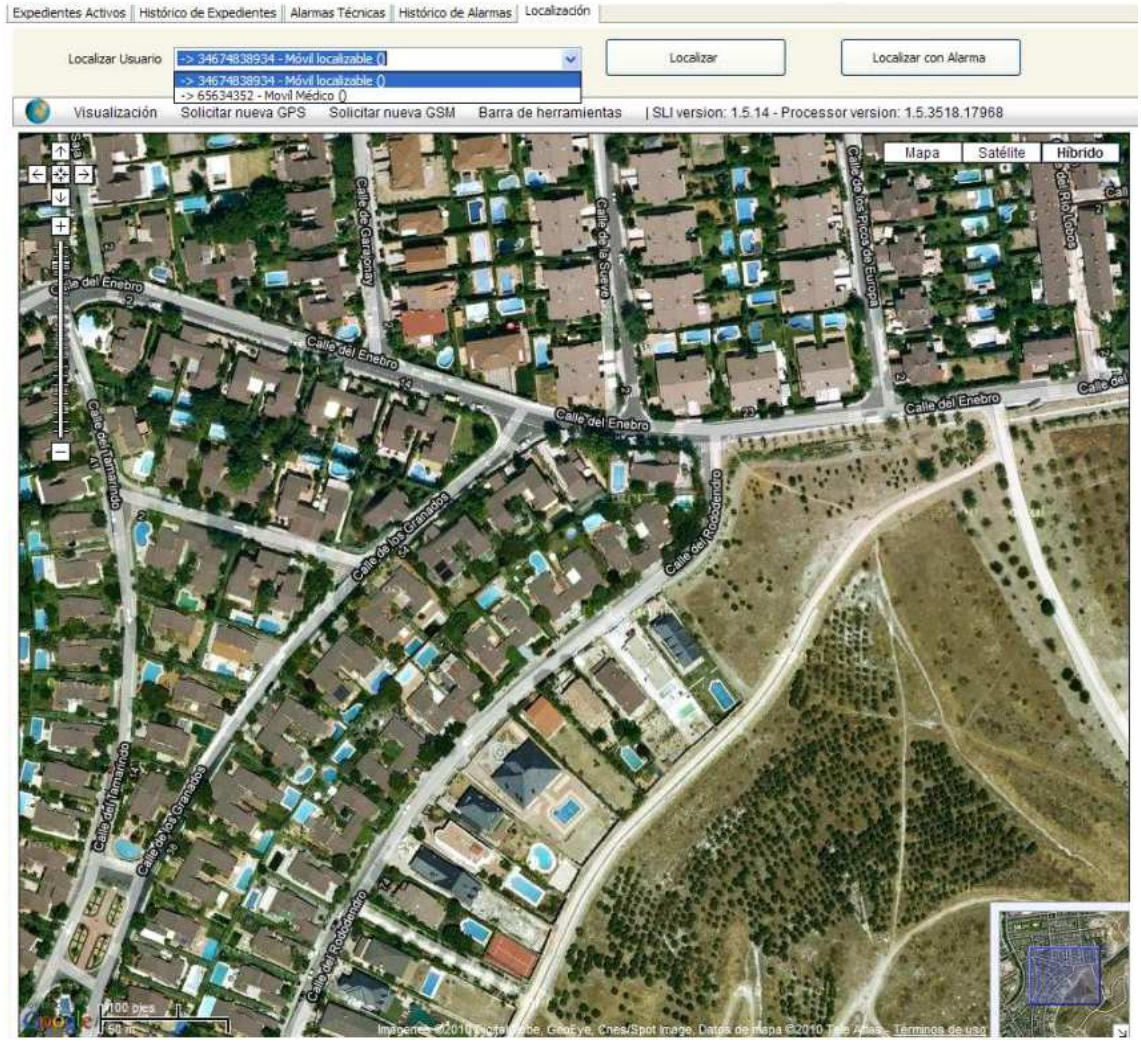

Se genera un nuevo expediente: A new file is generated:

| | | | | | |
|---|---|---|---|---|---|
| 12:24:11 | Andrés Montiel | Móvil | | Dispositivo Móvil | Monteprincipe |
| 12:24:11 | Andrés Montiel | Móvil | | Dispositivo Móvil | Monteprincipe |



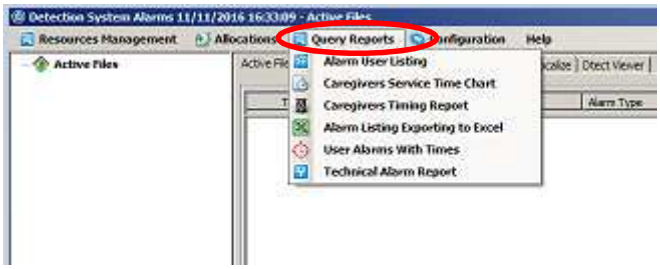

To search for a device, it is required:

1. Select from the list of available devices the one you want to locate
2. Press one of the two options to locate without generating record or locate generating a record


Expedientes Activos
Histórico de Expedientes
Alarmas Técnicas
Histórico de Alarmas
Localización
Localizar Usuario
-> 34674838934 - Móvil localizable ()
-> 65634352 - Movil Médico ()
Localizar
Localizar con Alarma
Visualización
Solicitar nueva GPS
Solicitar nueva GSM
Barra de herramientas
| SLI version: 1.5.14 - Processor version: 1.5.3518.17968
Mapa
Satélite
Híbrido
Calle del Enebro
Calle de Garcinay
Calle de la Sierra
Calle de los Picos de Europa
Calle del Río Cabo
Calle del Tamarindo
Calle de los Granados
Calle del Rododendro
100 pies
50 m
Imágenes ©2010 DigitalGlobe, GeoEye, Cnes/Spot Image, Datos de mapa ©2010 Tele Atlas
Términos de uso

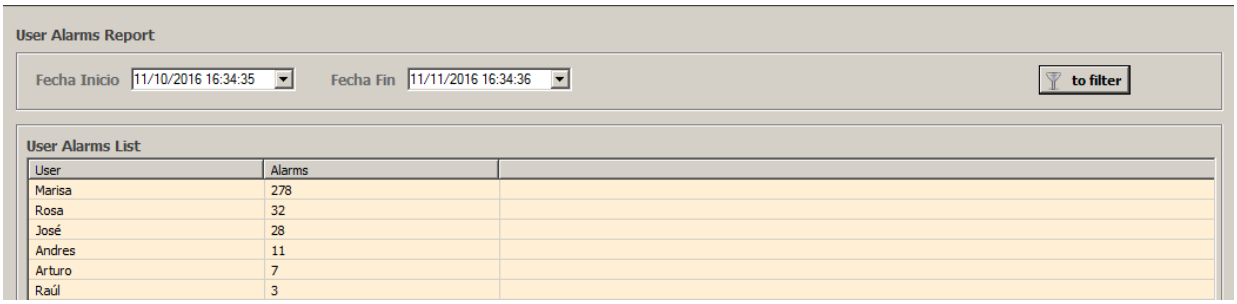
## Inquiries

The system can generate various reports. This information is displayed in the Inquiries menu option; by clicking, the options will be displayed.

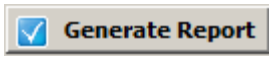



### 1- Graphs of number of Alarms per user:

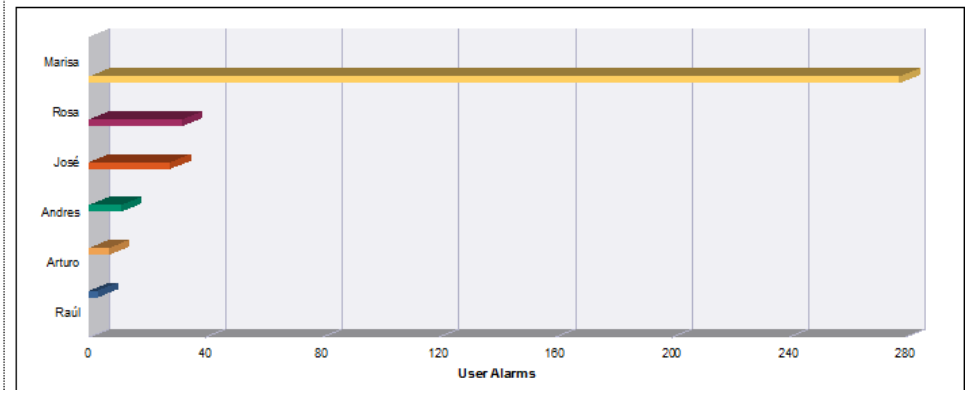
When you click on the option you can see a list of users, the number of alarms generated and the location where the user is.



By clicking on the button to generate the report, the graph of alarms per user is displayed:



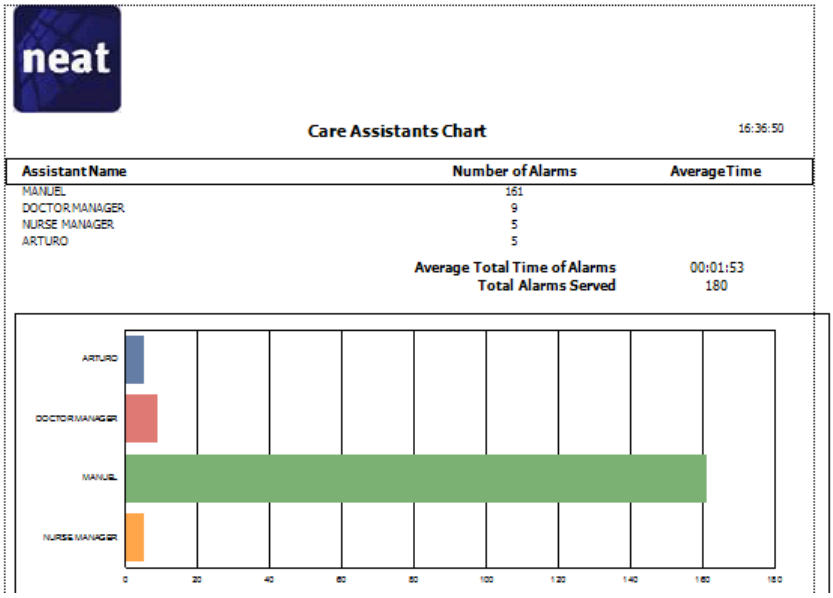

| User | Alarms |
|---|---|
| Marisa | 278 |
| Rosa | 32 |
| José | 28 |
| Andres | 11 |
| Arturo | 7 |
| Raúl | 3 |




It allows to know the proportion of attention or assistance for each user.

To print the graph, press the Print button and in order to close it, click on Close.

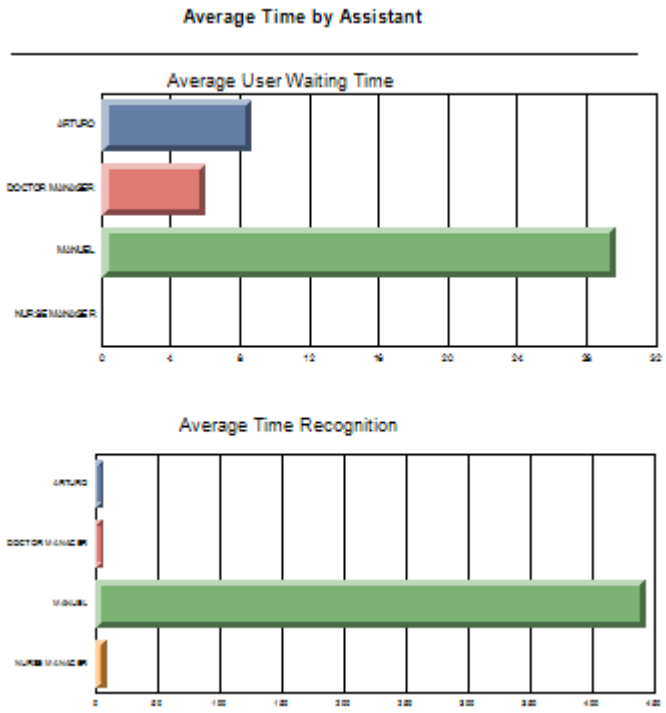
2- **Graph of number of alarms attended by an auxiliary**



It allows knowing the number of assists carried out per auxiliary.

To print the graph, press the print button and to close it, press the close button.

### 3- Statistical graphs per auxiliary.

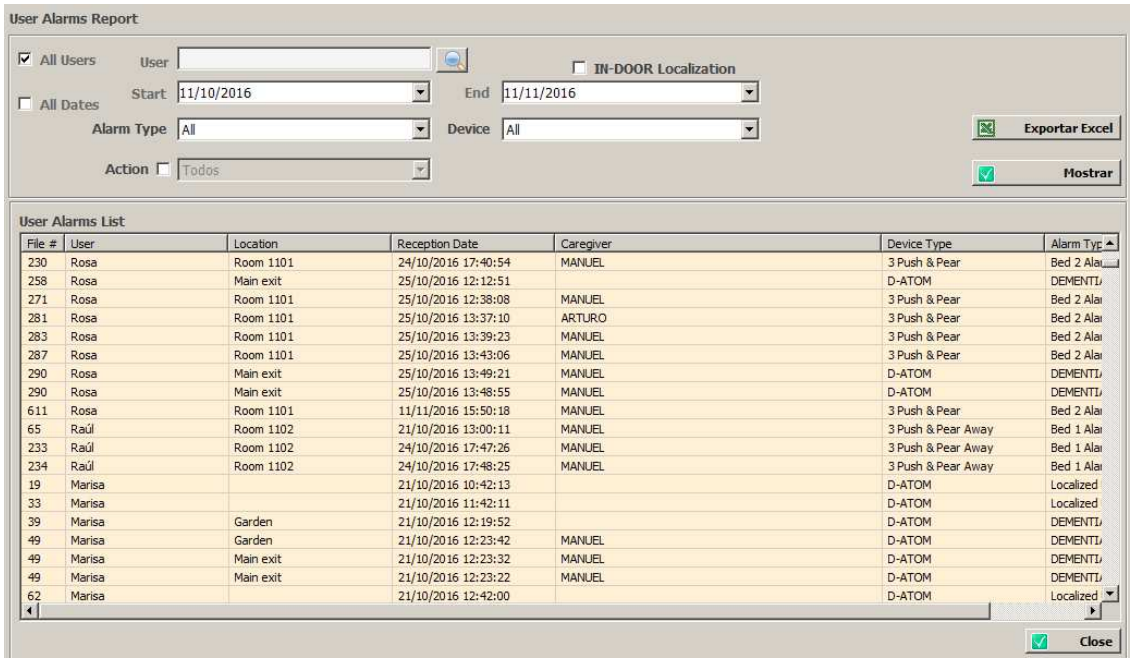



It allows you to know:

- Waiting Average time
- Average time of acceptance in TREX-2G unit
- Average time till service completion.

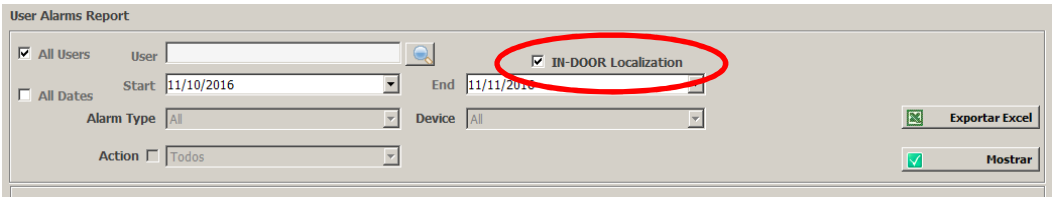
### 4- User Alarms Reports:

It allows knowing the alarms made by different users at the center.

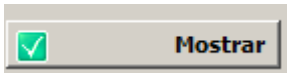



It has an IN-DOOR localization module to know the latest positions performed by users with units D-ATOM, UDAT, SMILE, IDSMILE and TREX-2G, so it is possible to locate patients and professionals in the center in a very agile and simple way and know the latest steps realized by the structure of DPOS arches installed.

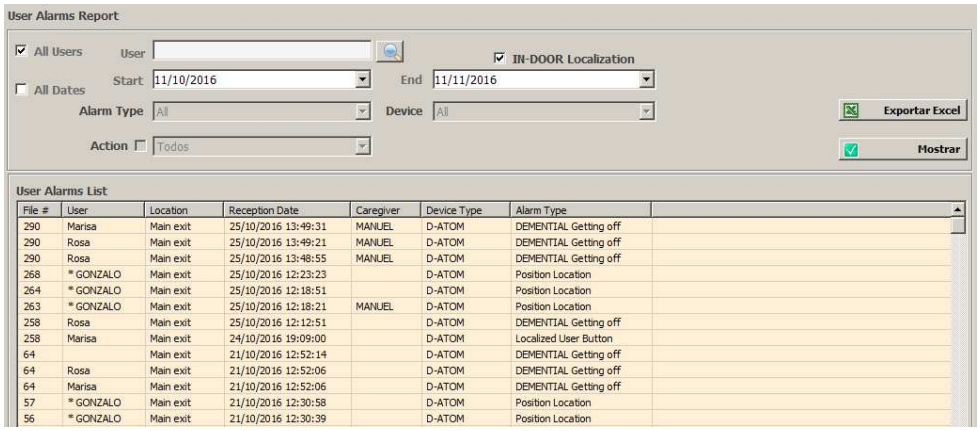
To do this you just have to click on the IN-DOOR box.



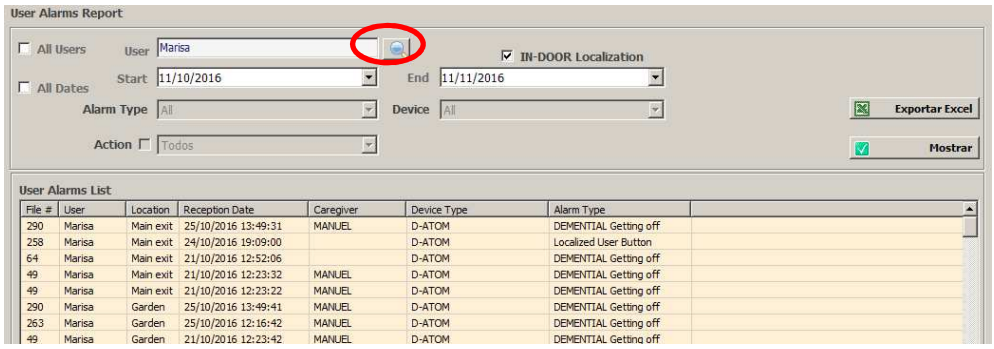

Select a date range and click on display.



You will find a general list, of all users who wear a position unit, with the recent steps taken by DPOs units.

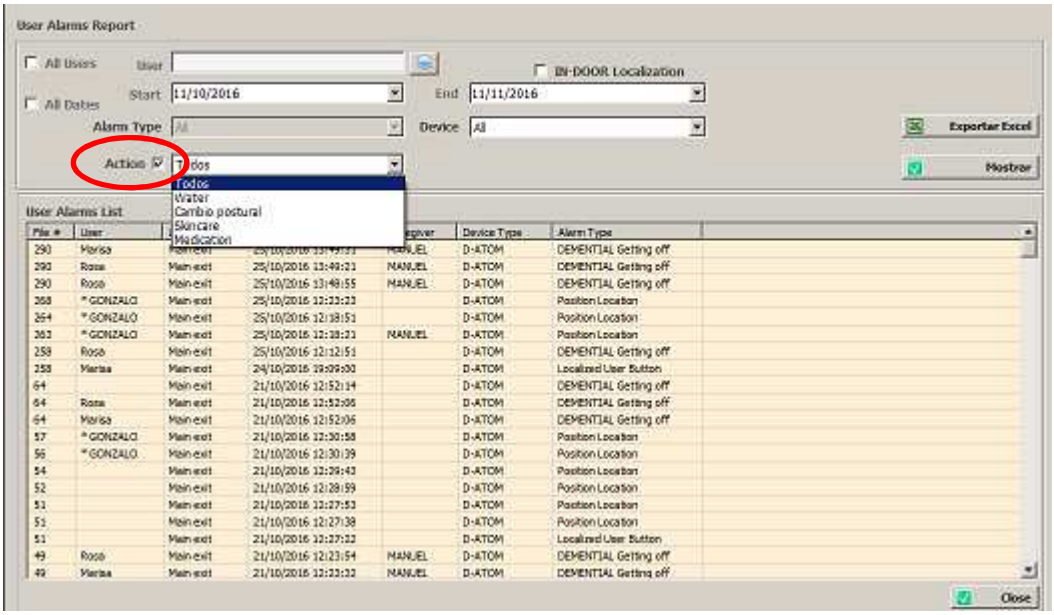



This report allows you to filter by user or professional; click on the magnifying glass icon.



The patient or auxiliary window is displayed, where you can make the selection.


**If you click on Actions**, you can also analyze the tasks performed by the different caregivers and personnel dedicated to the facility maintenance.




In this way we can know not only the work done with people, but also, work done by professionals such as:

- **Cleaning staff.**
- **Maintenance staff.**

This way you can know the different actions that the professionals, through units TREX-2G, have done in the center according to their professional profile.

**Attendance Time Report:**

It allows to know all the alarms that have occurred in the center and identifies:

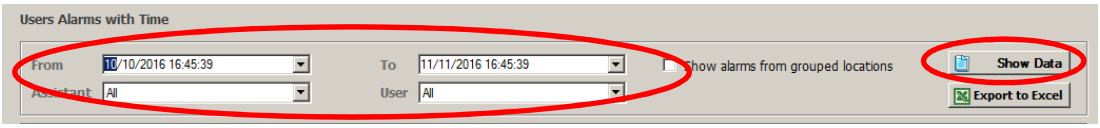
- Each of the records
- Which device opened a file
- People involved and attention times (acceptance in TREX-2G unit, room arrival and leaving)

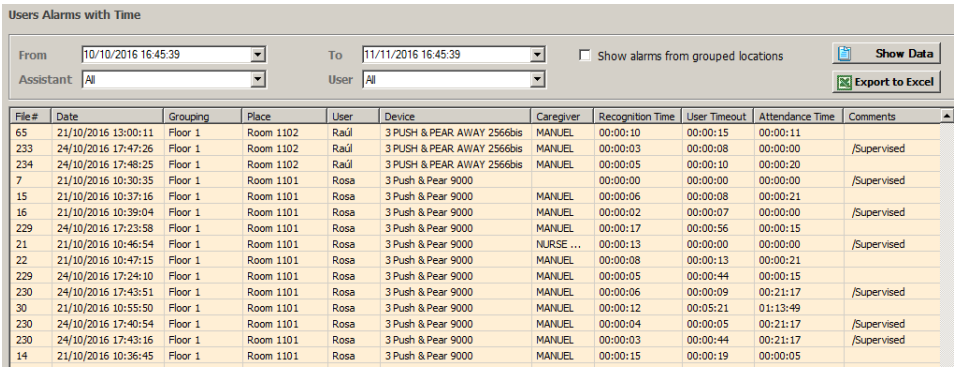
These reports can be exported to Excel, to do it, choose the selection criteria of search:

- Users
- Date Range
- Alarm Types
- Types of devices

Then press the Show Data button which will give you a list of information to be exported. If you only want to view, you can use the list displayed on the screen.

To export the list to an Excel file, press the "Export Excel" button.




| File# | Date | Grouping | Place | User | Device | Caregiver | Recognition Time | User Timeout | Attendance Time | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 65 | 21/10/2016 13:00:11 | Floor 1 | Room 1102 | Raúl | 3 PUSH & PEAR AWAY 2566bis | MANUEL | 00:00:10 | 00:00:15 | 00:00:11 | |
| 233 | 24/10/2016 17:47:26 | Floor 1 | Room 1102 | Raúl | 3 PUSH & PEAR AWAY 2566bis | MANUEL | 00:00:03 | 00:00:08 | 00:00:00 | /Supervised |
| 234 | 24/10/2016 17:48:25 | Floor 1 | Room 1102 | Raúl | 3 PUSH & PEAR AWAY 2566bis | MANUEL | 00:00:05 | 00:00:10 | 00:00:20 | |
| 7 | 21/10/2016 10:30:35 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | | 00:00:00 | 00:00:00 | 00:00:00 | /Supervised |
| 15 | 21/10/2016 10:37:16 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:06 | 00:00:08 | 00:00:21 | |
| 16 | 21/10/2016 10:39:04 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:02 | 00:00:07 | 00:00:00 | /Supervised |
| 229 | 24/10/2016 17:23:58 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:17 | 00:00:56 | 00:00:15 | |
| 21 | 21/10/2016 10:46:54 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | NURSE ... | 00:00:13 | 00:00:00 | 00:00:00 | /Supervised |
| 22 | 21/10/2016 10:47:15 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:08 | 00:00:13 | 00:00:21 | |
| 229 | 24/10/2016 17:24:10 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:05 | 00:00:44 | 00:00:15 | |
| 230 | 24/10/2016 17:43:51 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:06 | 00:00:09 | 00:21:17 | /Supervised |
| 30 | 21/10/2016 10:55:50 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:12 | 00:05:21 | 01:13:49 | |
| 230 | 24/10/2016 17:40:54 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:04 | 00:00:05 | 00:21:17 | /Supervised |
| 230 | 24/10/2016 17:43:16 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:03 | 00:00:44 | 00:21:17 | /Supervised |
| 14 | 21/10/2016 10:36:45 | Floor 1 | Room 1101 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:15 | 00:00:19 | 00:00:05 | |

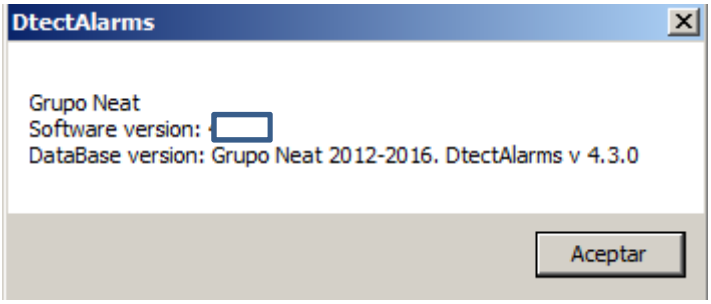
When you click on the Export button, the name and file path of the Excel file that will collect the information are requested.

When you open the Excel file you can see a list like this one:

| File | Date | Groupin | Place | Place | User | Device | Caregiver | Recognition | User Timeout | Attendance Time | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 21/10/2016 10:27:24 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | ARTURO | 00:00:09 | 00:00:12 | 00:00:04 | |
| 3 | 21/10/2016 10:28:44 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:03 | 00:00:11 | 00:00:05 | |
| 4 | 21/10/2016 10:29:27 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | NURSE MANAGEI | 00:00:08 | 00:00:00 | 00:00:00 | /Supervised |
| 4 | 21/10/2016 10:29:38 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | | 00:00:00 | 00:00:00 | 00:00:00 | /Supervised |
| 6 | 21/10/2016 10:30:09 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | ARTURO | 00:00:04 | 00:00:07 | 00:00:13 | |
| 7 | 21/10/2016 10:30:35 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | | 00:00:00 | 00:00:00 | 00:00:00 | /Supervised |
| 8 | 21/10/2016 10:31:01 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | ARTURO | 00:00:05 | 00:00:11 | 00:01:43 | |
| 8 | 21/10/2016 10:31:22 | Floor 1 | Room 1101 | 3 | -- | 3 Push & Pear 9000 | DOCTOR MANAG | 00:00:05 | 00:00:00 | 00:01:43 | |
| 11 | 21/10/2016 10:33:07 | Floor 1 | Room 1101 | 1 | José | 3 Push & Pear 9000 | DOCTOR MANAG | 00:00:05 | 00:00:09 | 00:00:00 | /Supervised |
| 12 | 21/10/2016 10:34:03 | -- | | 3 | Usuario no registrado | D-ATOM 2500 | | 00:00:00 | 00:00:00 | 00:00:00 | /Supervised |
| 13 | 21/10/2016 10:36:22 | Floor 1 | Room 1101 | 1 | José | 3 Push & Pear 9000 | MANUEL | 00:00:02 | 00:00:06 | 00:00:10 | |
| 14 | 21/10/2016 10:36:45 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:15 | 00:00:19 | 00:00:05 | |
| 14 | 21/10/2016 10:36:57 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:03 | 00:00:07 | 00:00:05 | |
| 15 | 21/10/2016 10:37:16 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:06 | 00:00:08 | 00:00:21 | |
| 16 | 21/10/2016 10:39:04 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:02 | 00:00:07 | 00:00:00 | /Supervised |
| 17 | 21/10/2016 10:40:45 | Floor 1 | Room 1101 | 1 | José | 3 Push & Pear 9000 | MANUEL | 00:00:04 | 00:00:08 | 00:00:17 | |
| 18 | 21/10/2016 10:42:03 | Floor 1 | Room 1101 | 1 | Andres | 3 Push & Pear 9000 | MANUEL | 00:00:04 | 00:00:07 | 00:00:13 | |
| 19 | 21/10/2016 10:42:13 | -- | | 1 | Marisa | D-ATOM 9531 | | 00:00:00 | 00:00:00 | 00:00:00 | /Supervised |
| 20 | 21/10/2016 10:46:03 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:04 | 00:00:08 | 00:00:23 | |
| 21 | 21/10/2016 10:46:54 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | NURSE MANAGEI | 00:00:13 | 00:00:00 | 00:00:00 | /Supervised |
| 22 | 21/10/2016 10:47:15 | Floor 1 | Room 1101 | 1 | Rosa | 3 Push & Pear 9000 | MANUEL | 00:00:08 | 00:00:13 | 00:00:21 | |
| 22 | 21/10/2016 10:47:44 | Floor 1 | Room 1101 | 3 | -- | 3 Push & Pear 9000 | DOCTOR MANAG | 00:00:03 | 00:00:00 | 00:00:21 | |
| 23 | 21/10/2016 10:48:39 | Room 1101 | Bathroom 11010 | 3 | -- | BATH PULL CORD 2147 | MANUEL | 00:00:04 | 00:00:08 | 00:00:19 | |
| 23 | 21/10/2016 10:48:57 | Floor 1 | Room 1101 | 3 | -- | 3 Push & Pear 9000 | DOCTOR MANAG | 00:00:06 | 00:00:00 | 00:00:19 | |
| 24 | 21/10/2016 10:49:32 | My Place | Main exit | 3 | Usuario no registrado | D-ATOM 2500 | MANUEL | 00:00:08 | 00:00:00 | 00:00:00 | |

## Help

In the current version 4.3.1, Help only displays information about installed versions of the application and the database:




Knowing versions of the database and the application can help correct errors or know whether an update is needed. Knowing versions of the database and the application can help correct errors or know whether an update is needed.

# Advanced Administration

This allow you to:

- Generate a unique administration password
- Change existing administrator password
- Give permissions for the current session
- Generate Database Back-up
- Add new types of devices
- Add new types of alarms

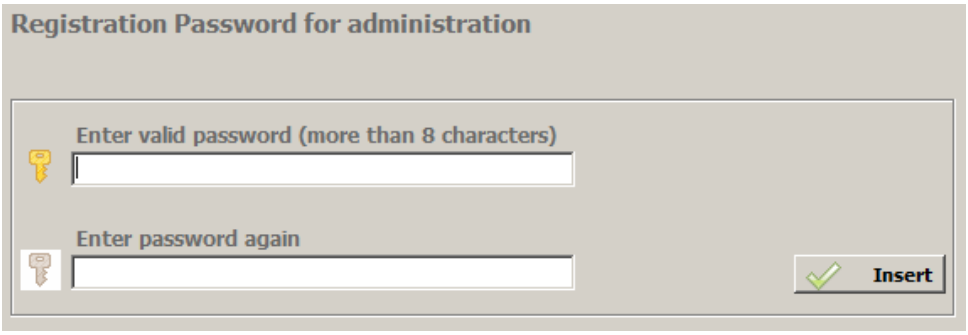
## Security

In the first use of the application there is no administrator password, you must create it. Once you create the password will be the same until you change it.

Generate administration password

Security menu

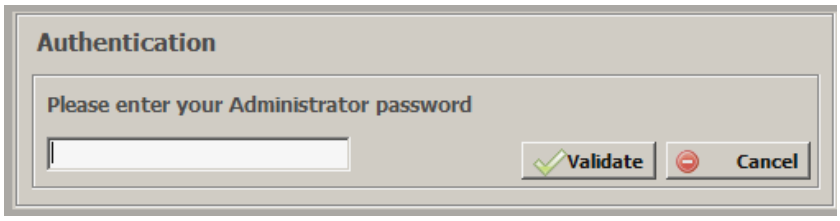
Passwords option




The password is entered twice. If there has been no mistake, a message saying "The password was inserted successfully" is displayed.

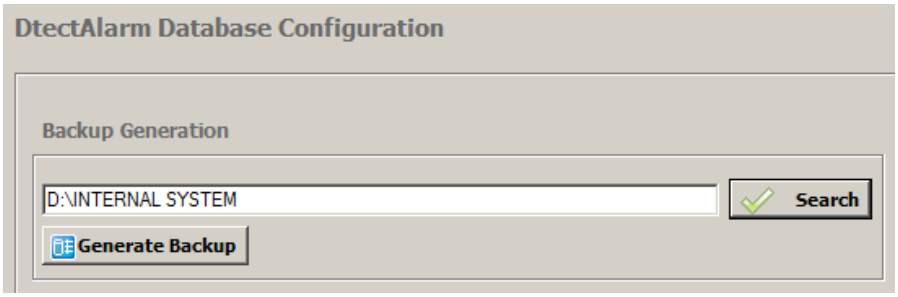
To exit password administration, click on the Close button.

If a password already exists, when you access to any of the "Settings" a window to enter the password be will displayed.



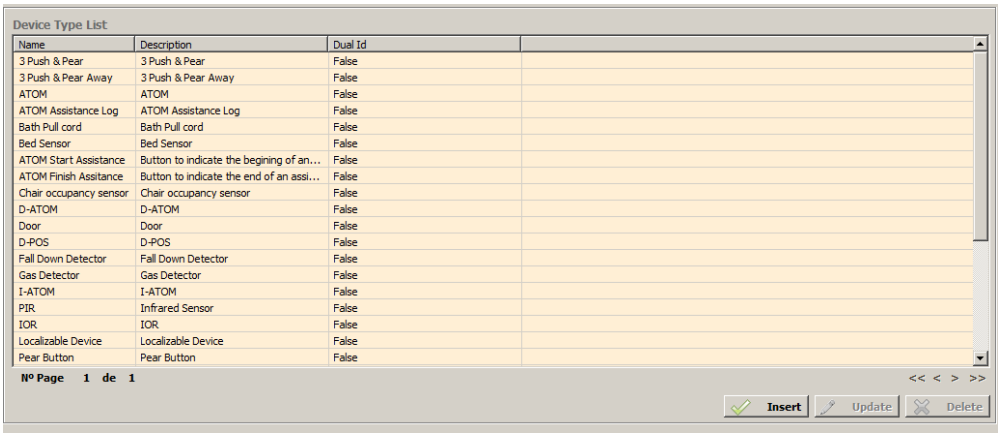

When it is necessary to generate a backup of the database you have to:

1. Have an administration password created in the system, if it has not been created never create it in Passwords.
2. In the database Configuration option enter the name and the path where you want to generate the single backup file.

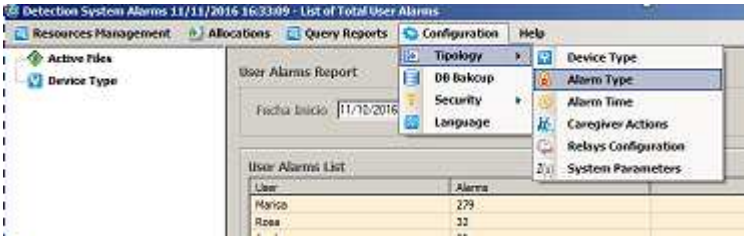


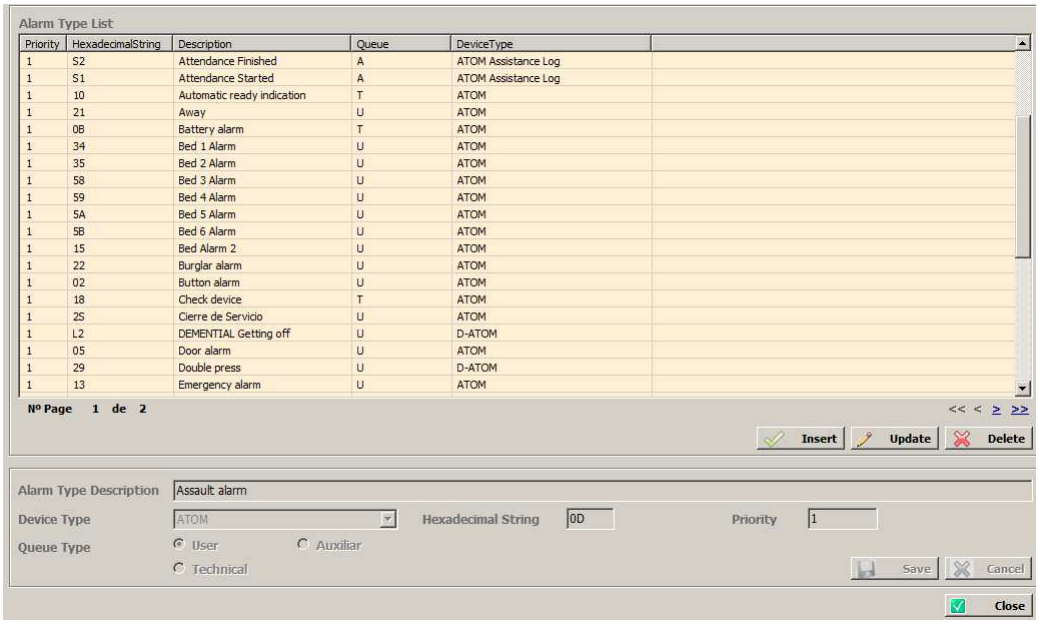
## Device types management

**It allows knowing the devices that are registered into the system with their corresponding logic ATTENTION!!! Devices should not be registered because it is needed to establish the logic of work in programming.**

## Alarm Types management




If a new device model is installed in the system, it may include its own types of alarms that the system must know.

This management screen allows you to insert new types and modify existing ones.

To create a new alarm type you will need to:

1. Click on Insert

Fill in the fields of Description, Hexadecimal Chain, Device Type (must have previously been created) and Queue Type, if the alarm belongs to one generated by a user or if it is a technical alarm.

2. Finally, click on Save

In case you want to modify one, you have to:

1. Select it from the list
2. Press the Update button
3. Make the changes
4. Press the Save button

To exit the management screen, press the close button. If not desired, this screen will be available to the left of the screen, in the list of open managements.

**Note:** When a new device type with its corresponding alarm types is included, as a general rule, an update package will be created that will be provided with the new device. The most common use of device and alarm management is to change the name or description to facilitate the user's understanding if desired.

Sometimes, because of the language setting of the computer where it is installed, after installing the application, some special characters may appear wrong, such as accents or diaeresis.

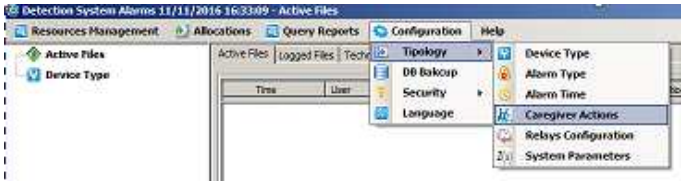
In this case the texts can be corrected from the device types management.

**Note: It is preferable not to make changes to the Device Type and Alarm Types management screens since unexpected results may be obtained.**

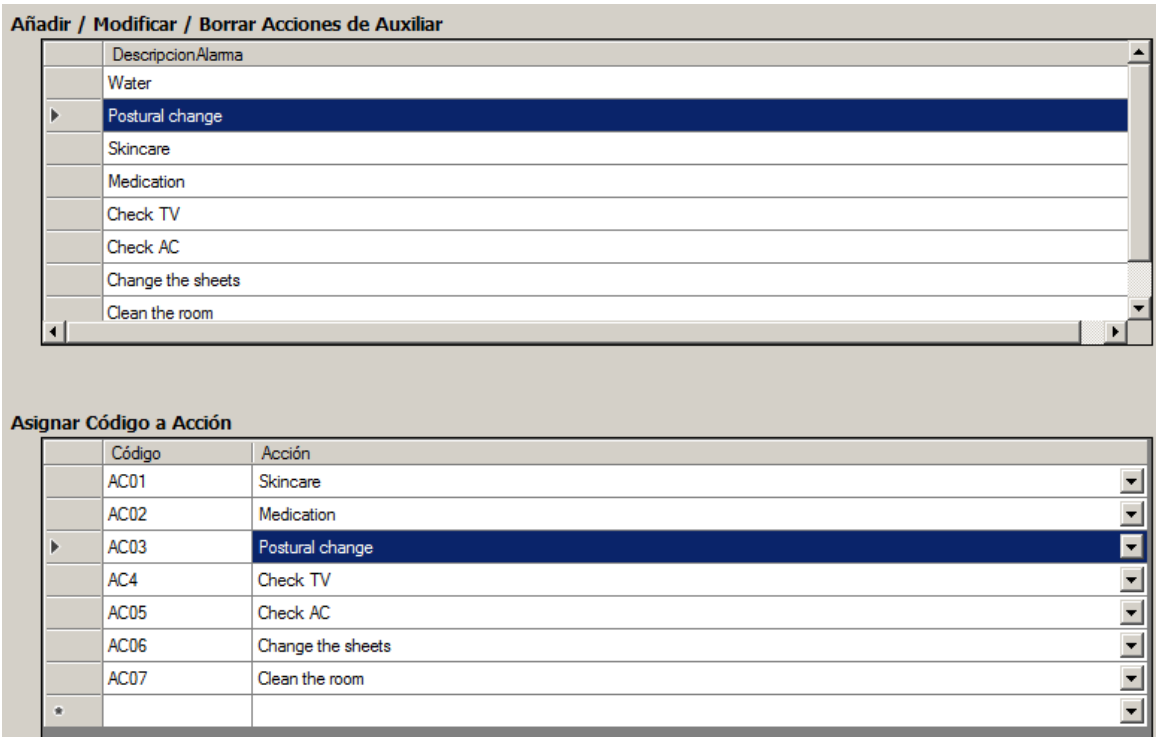
## Control tasks

The D-TECT Alarm system offers the possibility to perform the task control. These tasks are the assistance activities offered as services in the center. With this control, you can carry out a very precise quality management and incident control. Depending on the specialty of the center, these tasks will be different. This model allows controlling tasks in a generic way. To do this it uses the "Wall Family" devices or buttons on the wall. The professional will use this button when starting a service, and then he/she will leave a record of the action performed and at the end he/she will press the exit / end of service button. This records the time of attention of the service and tasks performed in a precise and simple way.

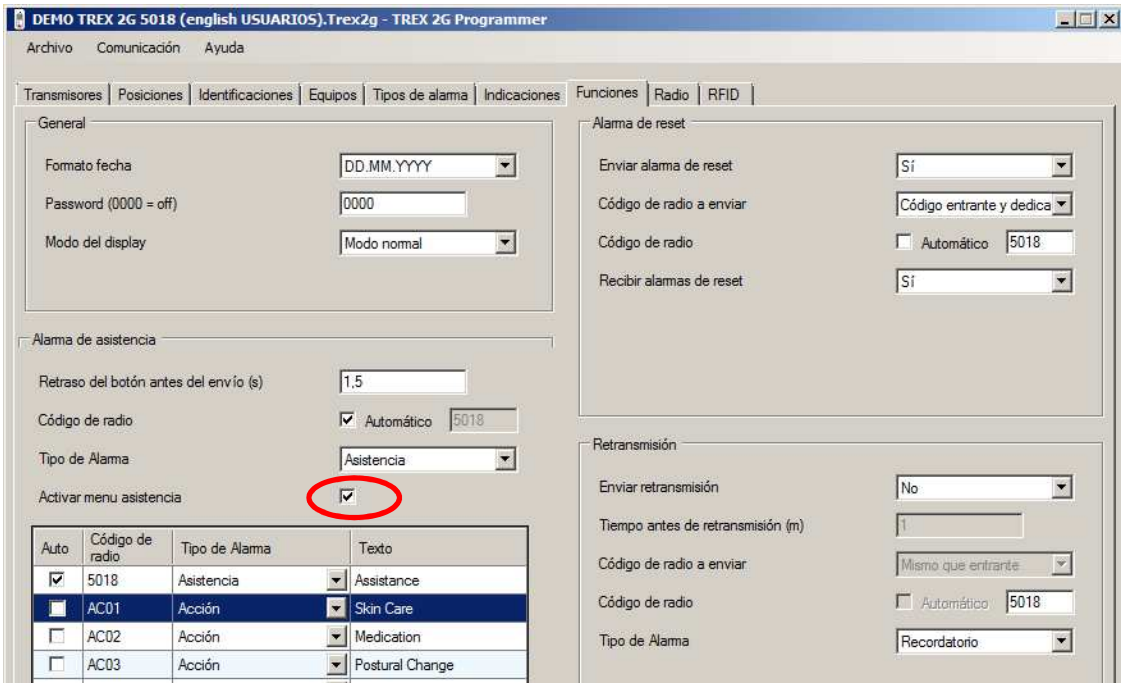
To activate the task control service, register the general list of tasks to perform and assign each task a radio code that must be the same as the one included in the TREX-2G unit.




**When you click on the "Types of actions" option, a list is displayed where you have to enter them and assign them their corresponding radio code (hexadecimal).**

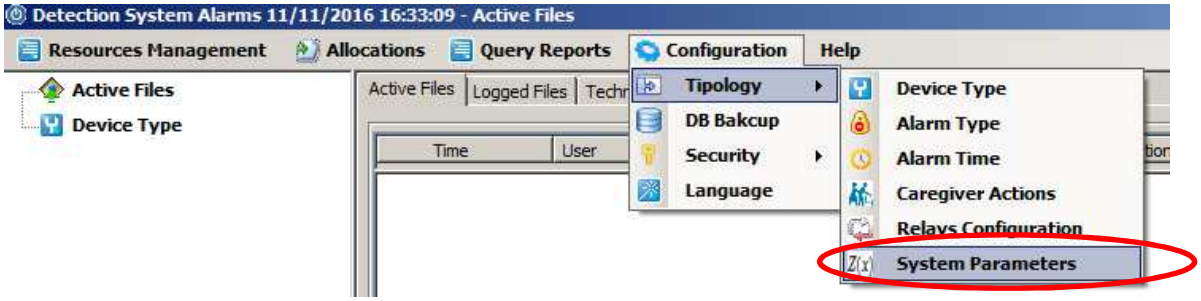


To register the tasks, **you must first configure them in the TREX2G** unit by clicking on the **"Activate attendance menu"** box:




To perform the task control we use the room units that allow to register arrival and leaving (3PUSHPEAR / 3PUSHPEAR AWAY / 3 PUSH).

## System parameters




In this section we will pay attention exclusively to the functionality of "Reminder".

This function resends the alarm received in one or several TREXs when the professional accepts an alarm in the TREX2G unit and has exceeded the allowed time of arrival to the room that is registered with the presence button (3PUSH / 3PUSHPEAR / 3PUSHPEAR AWAY).

This time is configurable and will be expressed in seconds.

In this example the professional has 5 minutes (300 seconds) to reach the room after an alarm is accepted on the TREX2G unit.

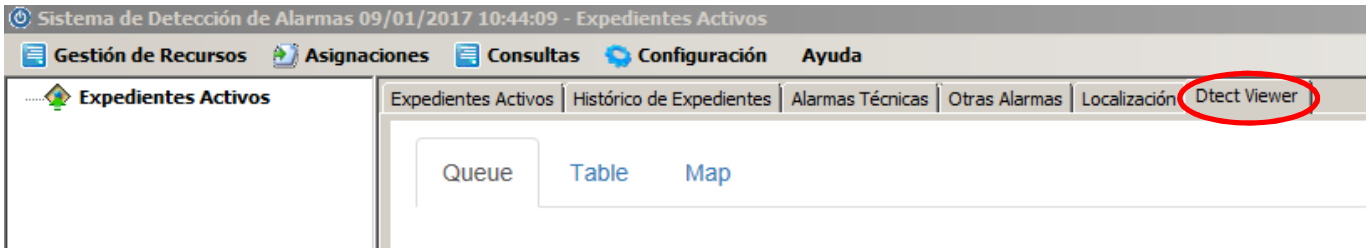
| | IdParameter | Name | Value | Activated | Comment |
|---|---|---|---|---|---|
| | 1 | SirenActive | false | ☑ | Enable or disable Sirens |
| | 2 | Notification_DeviceInactivityCo... | 77 | ☑ | Absence of Test (device inactivity detected) notification |
| | 3 | Notification_MainFaulure | 78 | ☑ | Main Failure Alarm Notification |
| | 4 | Notification_BatteryAlarm | 79 | ☑ | Battery Alarm Notification |
| | 5 | NSTM_Notification | 18 | ☑ | NeatSystemTrayMonitor Notification. Operates over Notifications parameters |
| | 6 | Dtect_Notification | 18 | ☑ | Enables Dtect radio event notification |
| | 7 | Notification_OnFile_ByMessage | NULL | ☑ | NTSM message on file updated |
| | 8 | Notification_OnFile_ByBallontip | NULL | ☑ | NTSM ballontip on file updated |
| | 9 | NSTMServers | 127.0.0.1 | ☑ | Comma separeted, accesible NSTM nodes. Localhost By default |
| | 10 | URLPBXWS | http://10.40.0.12... | ☐ | PBX phone call web service URL |
| ✎ | 11 | ArrivalMaxTime | 300 | ☑ | Check Reminder. Max time, in seconds, between an alarm has been accepted and an assistant is present |
| | 12 | URLNDBWS | http://127.0.0.1:... | ☑ | Neat Dtect Bus Web Service URL. Used for sending alarms |
| | 13 | Cleaner | NULL | ☐ | When active delete old wrong alarms and debug messages |
| | 14 | TestDeviceAcitvityMonitor | | ☑ | Activated enables or disables device test activity |
| | 15 | DoublePressAssistance | true | ☑ | If true, DATOM double press starts and ends assitance |
| | 16 | BedsRetrocompatible | | ☐ | Bed assignment retrocompatibility. Used for pear buttons wiring order |
| * | | | | ☐ | |

If this time elapses without anyone pressing arrival at the room, the system will send the alarm again to the corresponding equipment.

## New module for displaying alarms:

The current version is limited to a maximum of 9 floors and 99 rooms per floor.

Within the application, a new module has been created that allows the display of active alarms from different display styles:



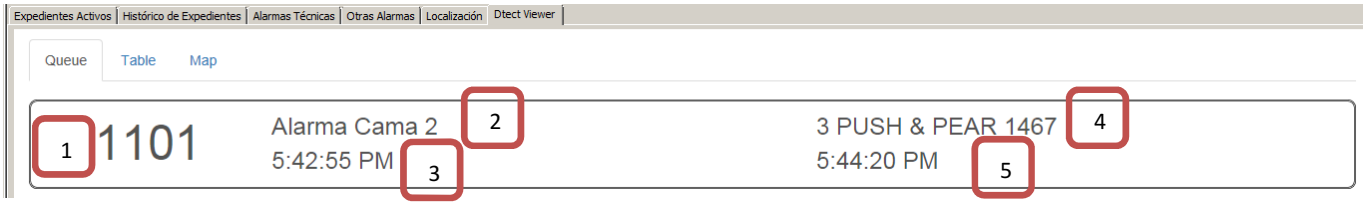

**You can select among these styles:**

- Queue
- Table
- Map

**<u>Queue Style:</u>**

The current version is limited to a maximum of 9 buildings, 9 floors and 99 rooms per floor.

Each time an alarm is sent, it appears in the following format:




1. Room identification with 4 digits:
    - The first digit corresponds to building (up to 9 buildings)
    - The second digit corresponds to floor 1 (up to 9 floors)
    - The third and fourth digits correspond to room 01 (up to 99)

2. Type of alarm "example: bed 2"
3. Time at which the alarm occurred
4. Unit that sent it
5. Time of acceptance by a professional in the TREX unit.

Through the use of colors, you can, from the monitoring point, know at what time of care you are.

In this example, the white color corresponds to the start of the alarm (a user has pressed the alarm from bed 2)


When the professional arrives at the room, presses the yellow button of the 3PUSHPEAR unit to register his/her arrival, at that moment the alarm changes color:


If the emergency alarm is pressed through the red button of the 3PUSHPEAR unit, it will change color again.

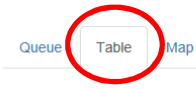

And the same thing will happen when pressing leaving from the green button of the 3PUSHPEAR unit:


**The use of color, therefore, allows professionals to interpret quickly and easily at what time of care they are.**

**Table Style:**

The current version is limited to a maximum of 9 floors and 25 rooms per floor.

The alarm display is shown as follows:




| | R-01 | R-02 | R-03 | R-04 | R-05 | R-06 | R-07 | R-08 | R-09 | R-10 | R-11 | R-12 | R-13 | R-14 | R-15 | R-16 | R-17 | R-18 | R-19 | R-20 | R-21 | R-22 | R-23 | R-24 | R-25 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F-01 | 0101 | 0102 | 0103 | 0104 | 0105 | 0106 | 0107 | 0108 | 0109 | 0110 | 0111 | 0112 | 0113 | 0114 | 0115 | 0116 | 0117 | 0118 | 0119 | 0120 | 0121 | 0122 | 0123 | 0124 | 0125 |
| F-02 | 0201 | 0202 | 0203 | 0204 | 0205 | 0206 | 0207 | 0208 | 0209 | 0210 | 0211 | 0212 | 0213 | 0214 | 0215 | 0216 | 0217 | 0218 | 0219 | 0220 | 0221 | 0222 | 0223 | 0224 | 0225 |
| F-03 | 0301 | 0302 | 0303 | 0304 | 0305 | 0306 | 0307 | 0308 | 0309 | 0310 | 0311 | 0312 | 0313 | 0314 | 0315 | 0316 | 0317 | 0318 | 0319 | 0320 | 0321 | 0322 | 0323 | 0324 | 0325 |
| F-04 | 0401 | 0402 | 0403 | 0404 | 0405 | 0406 | 0407 | 0408 | 0409 | 0410 | 0411 | 0412 | 0413 | 0414 | 0415 | 0416 | 0417 | 0418 | 0419 | 0420 | 0421 | 0422 | 0423 | 0424 | 0425 |
| F-05 | 0501 | 0502 | 0503 | 0504 | 0505 | 0506 | 0507 | 0508 | 0509 | 0510 | 0511 | 0512 | 0513 | 0514 | 0515 | 0516 | 0517 | 0518 | 0519 | 0520 | 0521 | 0522 | 0523 | 0524 | 0525 |
| F-06 | 0601 | 0602 | 0603 | 0604 | 0605 | 0606 | 0607 | 0608 | 0609 | 0610 | 0611 | 0612 | 0613 | 0614 | 0615 | 0616 | 0617 | 0618 | 0619 | 0620 | 0621 | 0622 | 0623 | 0624 | 0625 |
| F-07 | 0701 | 0702 | 0703 | 0704 | 0705 | 0706 | 0707 | 0708 | 0709 | 0710 | 0711 | 0712 | 0713 | 0714 | 0715 | 0716 | 0717 | 0718 | 0719 | 0720 | 0721 | 0722 | 0723 | 0724 | 0725 |
| F-08 | 0801 | 0802 | 0803 | 0804 | 0805 | 0806 | 0807 | 0808 | 0809 | 0810 | 0811 | 0812 | 0813 | 0814 | 0815 | 0816 | 0817 | 0818 | 0819 | 0820 | 0821 | 0822 | 0823 | 0824 | 0825 |
| F-09 | 0901 | 0902 | 0903 | 0904 | 0905 | 0906 | 0907 | 0908 | 0909 | 0910 | 0911 | 0912 | 0913 | 0914 | 0915 | 0916 | 0917 | 0918 | 0919 | 0920 | 0921 | 0922 | 0923 | 0924 | 0925 |

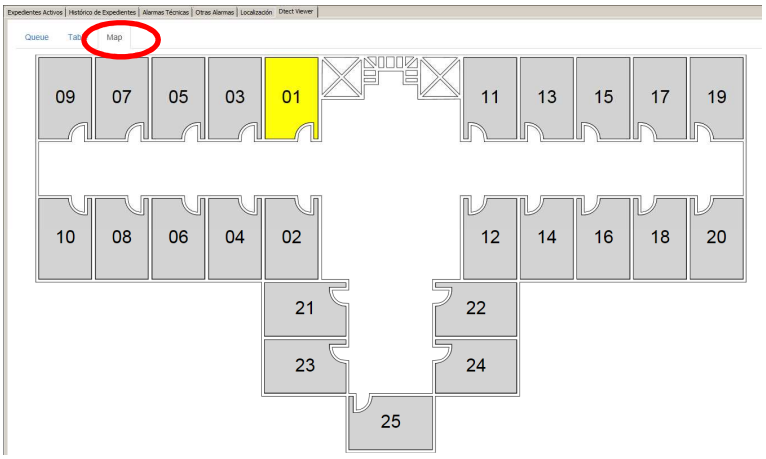
• This module applies the same color logic as the previous style.

**Estilo Map:**

The current version is limited to a maximum of 9 floors and 99 rooms per floor.

To use it you need a map vectorization tool, so you have to contact Neat Group.

The alarm display is shown as follows:



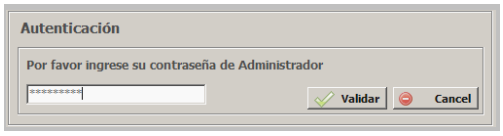

This module applies the same color logic as the previous style.

## USE OF COLOR PALETTE:

In order to comply with the regulations of each country, the color management module has been developed, allowing a specific color to be associated with each type of alarm.

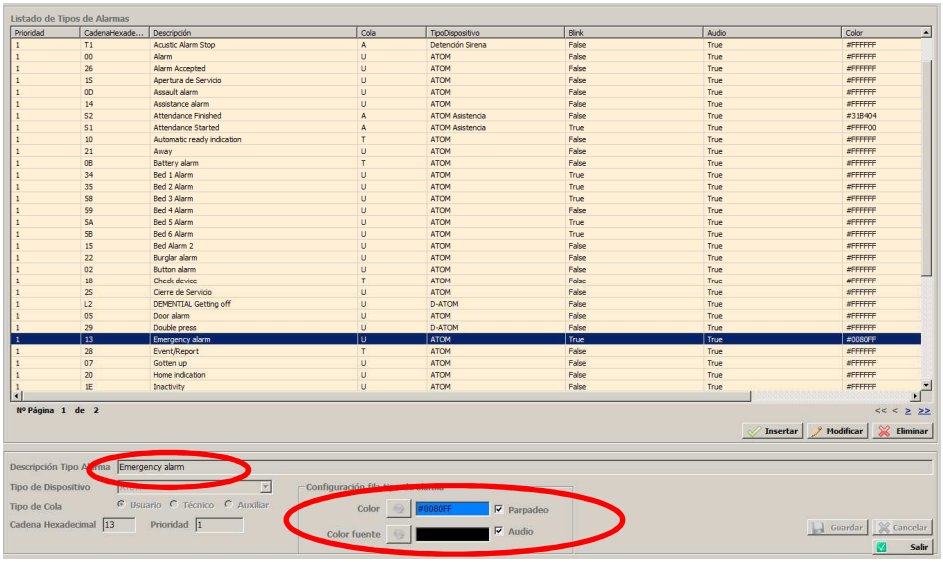
- To change the color of an alarm, click on the "Alarm Types"


- If it is the first time you access the configuration module you will be prompted for the password:

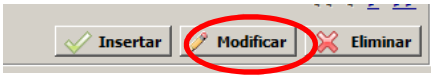



Once you are in the section of types of alarms you can select any of them and if it is necessary you can modify their color. This color will be the one that the application displays, at the moment the alarm is activated.

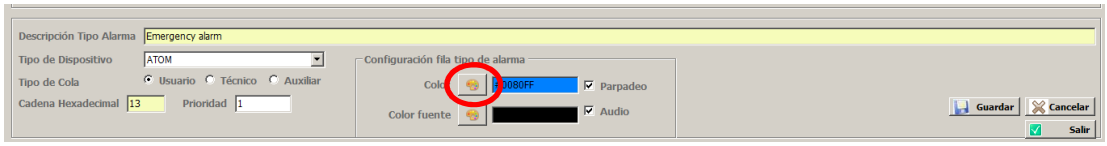
In this example, we have selected the Emergency alarm, which is currently in blue color:



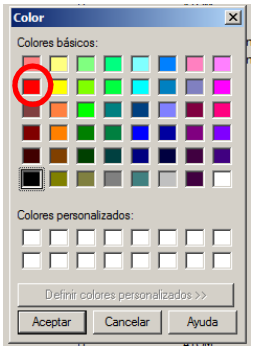

- Click Modify



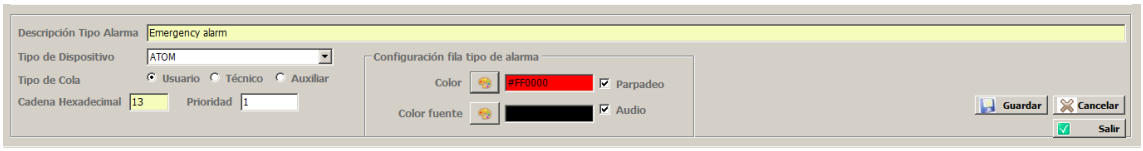

- Click Color:




- The color palette is displayed:



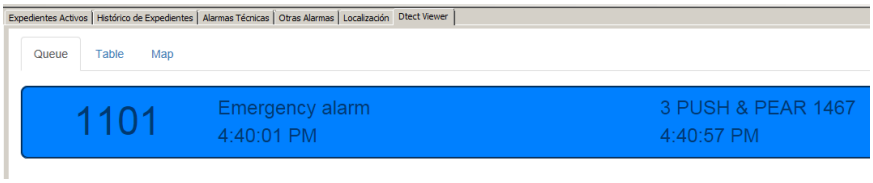

- Any of the existing ones can be selected, in this example the red




- Click save

From that moment every time you press an emergency alarm, the color that the application presents is red instead of blue:

**Before**



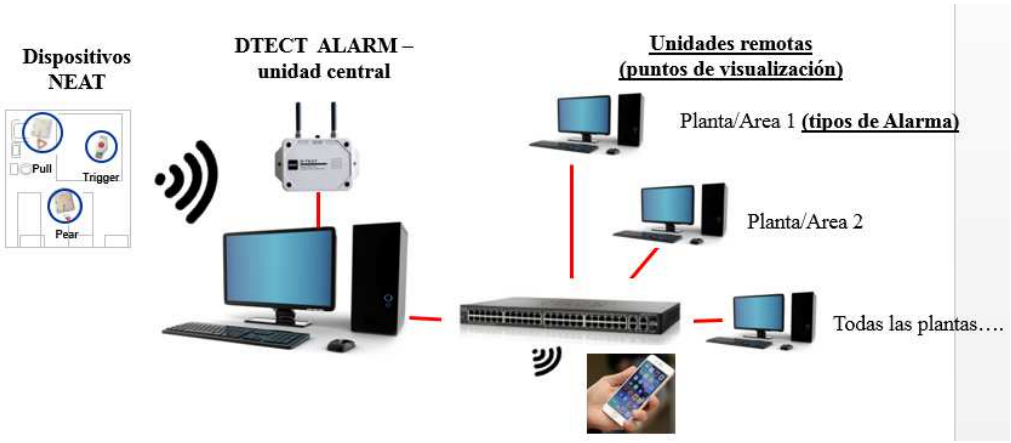

**After the changes**


## Module for the creation of different screens of visualization in remote equipment

## Remote equipment:

In order to visualize the alarms in different monitoring points a new module has been developed with the reference NE99 00132-01.

This new optional license includes the possibility to deploy up to 5 alarm display points at different monitoring points. These units (computers, Smart Phones, etc.) must be connected to the same IP network infrastructure.

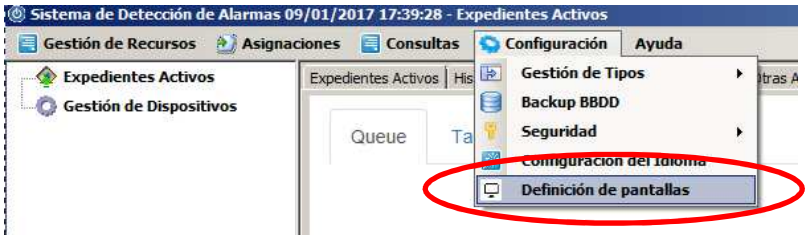


The way of alarm display can be indicated in the previous point (New module for displaying alarms)

## Módulo para la creación de pantallas:

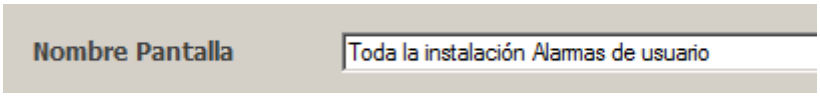
This module allows the definition of screens to be able to group different areas of the center, as well as types of alarms.

To create screens you have to click the option Defining screens by entering the module

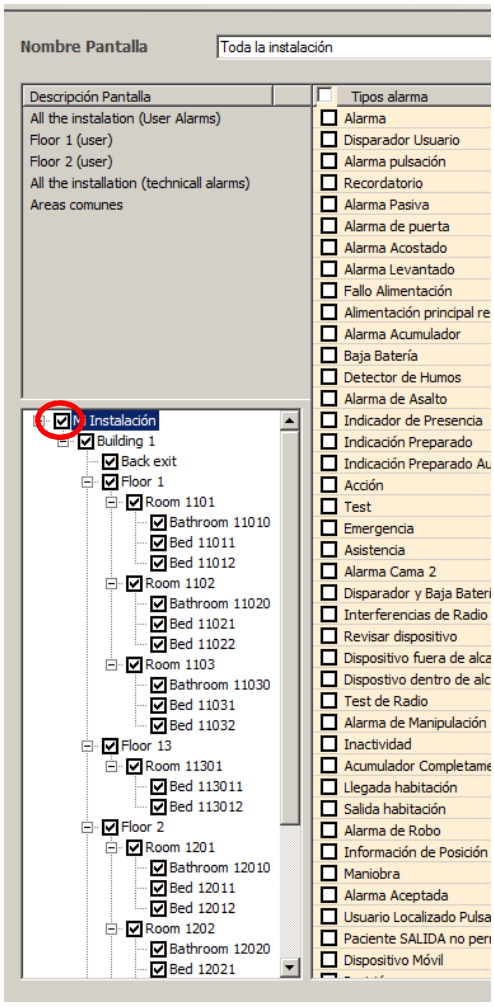



Click the Insert option

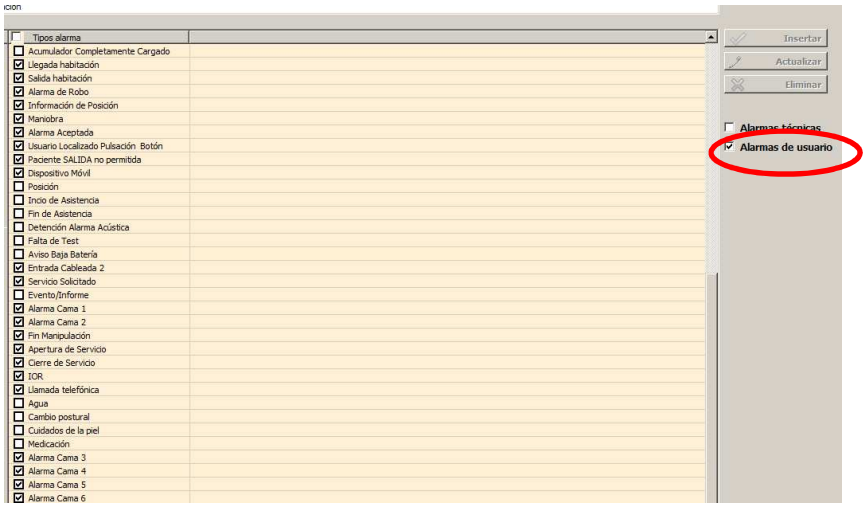

Name the screen, in this example All Installation User alarms




Since it is the whole installation, you have to check My installation, at this time all the rooms, beds and common areas of the center will be checked, so this screen will receive all the alarms in the center.

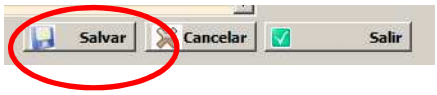



Once checked the areas included in the created screen you have to decide the type of alarm you want to receive, in this example alarms related to the care will be checked exclusively and not the technical alarms, so you have to click on the box User alarms, which filters this group of alarms.

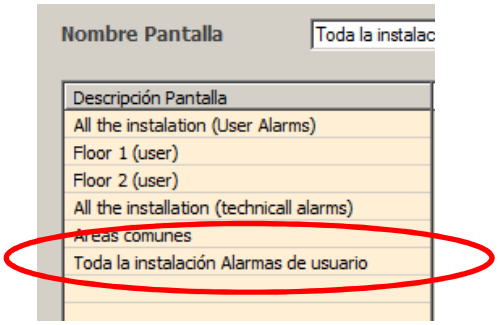



- You can add or delete any alarm, by simply checking or unchecking the box.

Once the area selection and alarm types have been selected, click Save



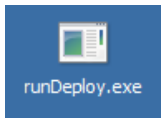

And the screen created in the list of screens appears



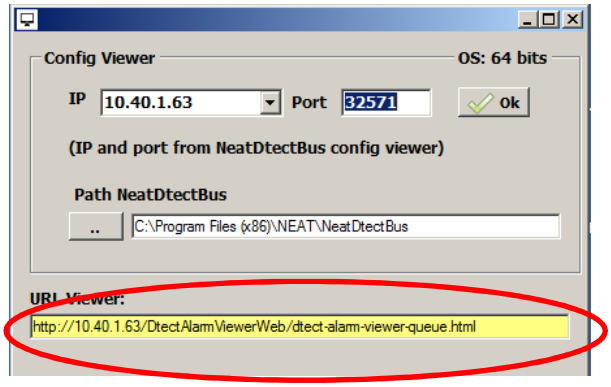

- Therefore, in this module you can define the different screens you want to have in the center grouping them by floors, zones and types of alarms.

## Access to display screens

In order to access one of the screens created from a remote monitoring point, you have to know the IP within my network infrastructure, so that, the module runDeploy has been created.



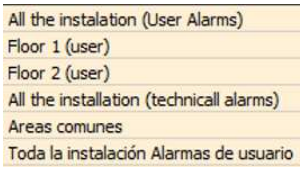

Which will give information of this IP



This IP address will be included in the browser of the remote computer (Computer, Smart Phones, etc.).


- We recommend the Chrome browser, which emits sound whenever a new alarm arrives.

**When you first access**, you have to select one of the created screens, in this way only the specific alarms of the previously created screen will be displayed.




From that moment, the remote computer will receive the alarms in the selected display style.