

User Manual



Documentation

DtectAlarm

V 2.3.1



Document Title Manual			Sheet 2 of 109
Author Dpto. Software	Date May 2011	Document Type User Manual	Version 2.3.1

Grupo NEAT

General description

This document is aimed to serve as a user guide, step by step through the surfing of DtectAlarm.

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1. Introduction

DtectAlarm system was created with the aim of recording the daily assistance work. This registration is done by capturing or "listening" Neat radio devices. The captured information is used to measure and control the quality care by generating reports and statistics in order to help on decision making.

The DtectAlarm system records information, using technology for the Neat healthcare sector, from the various entities that interact with the system such as: Medical professionals of care as nursing assistants, health care technicians and guards. The personnel are provided with a TRES which receives alerts and warnings from the users and from the environment. The users are those who receive care services: residents, patients, disable or dependent people who rely on technology to improve the healthcare service they receive. Devices are those that provide the technology enabling new services and reducing the impact of old technologies on the healthcare sector, mainly using wireless communication.

These devices can be fixed or mobile and it is important to know the space distribution location in the facility where the care service is carried out. The interaction between socio-professionals, the users who are benefited from the services and devices, correctly placed in context, generates a care activity, which is collected by the system with radio Neat technology.

The information generated in the system is provided by the following sources:

- Healthcare professionals
- Devices
- Locations
- Care activity

2. Architecture

There are two possible configurations:

Standalone (standard installation)

(Database, DTECT and application in the same workstation).





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Network

- Application in a Workstation.
- Database on another network computer
- DTECT device on another network computer.

Any of the three components can be combined in the same PC.

Also, the application allows you to listen multiple DTECT devices at once.

In other words, the DTECT device could be installed with the DtectSerial service on multiple network computers to transmit alarms over the Ethernet network to the database in large installations which are divided into separate blocks or modules and each one is managed from the independent device installation point of view. So each block of the installation has user devices and assistant TREX separate from those ones of another module that is unable or unwilling to receive radio signals from it.

3. System requirements

- Compatible operating system: Windows Vista; Windows Vista Service Pack 1; Windows XP Service Pack 2; Windows XP Service Pack 3, Windows 7.
- 32 bit systems: computer with Intel processor or compatible to a 1GHz or higher (2GHz or higher is recommended). (A single processor is supported).
- 64 bit systems: 1.4 GHz processor or higher (recommended 2 GHz or higher. It supports a single processor).
- Memory: 256 MB of RAM minimum (1 GB or more recommended)
- Disk space: 1.6 GB available (at least)
- Graphics adapter with at least 1024x768 resolution, 1280 x 1024 recommended.



- Detect alarm USB license key



4. Installation requirements

4.1 Hardware components

The hardware installation consists of the following equipment:

- The DTECT device is responsible for receiving radio signals. You must have at least version 4. The silkscreen with R4 can be seen in the PCB board.
- RS485 Serial USB adapter, this port is different from the standard RS232, you should not confuse, since it will not work in a DB9 serial port of a conventional PC. It provides an RS485 adapter to a PC via USB.
- USB Cable, to connect the adaptor RS485 to a PC
- RJ45 Cable - DB9, to connect the DTECT to a PC via RS485 adapter
- USB license key

4.2 Software components

The software package has the following components:

- Windows installer 3.1 Not necessary with Windows Vista

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- Net framework (Not necessary with Windows Vista)
- Crystal Reports .Net reporting Runtime
- SQL SERVER 2005 Express
- USB Driver license key

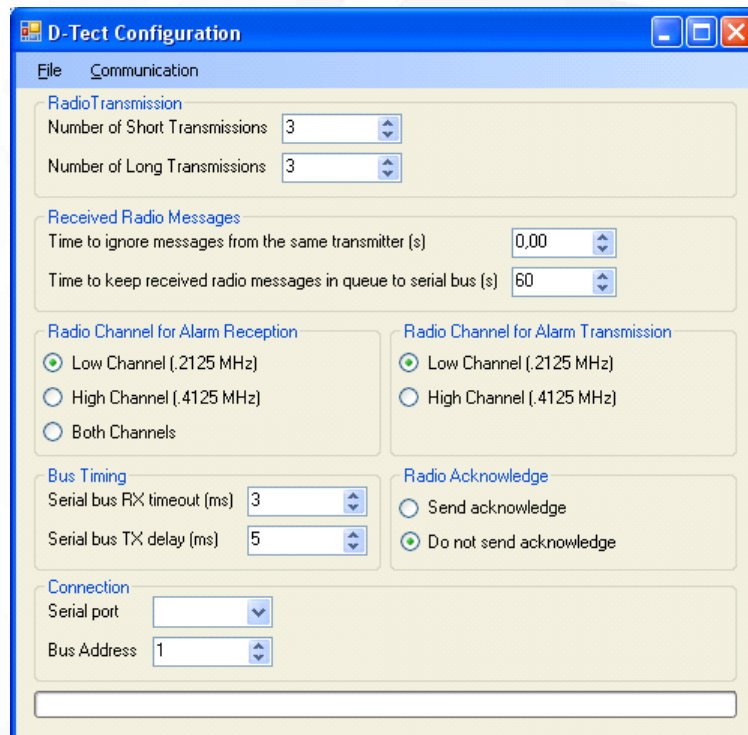


- Application Dtect alarm
- Dtect Serial Service

4.3 System configuration (Hardware configuration)

D-TECT UNIT:

- Working frequency devices.
- Position Switch 1
- Time to ignore messages from de same transmitter(s).
- At least version R4. If smaller, DATOM position alarms, for example, are not treated properly.
- To set the low channel for reception and transmission. This is the recommended configuration. (Confirm according to installation).
- Mark "Do not send acknowledge ", if it is marked there will be alarms which are not received in the TREX.



- The Serial RS485 USB adapter (standard kit) should be configured with the following bridges combination.
 - Jumpers 1-2, 5-6, 7-8, 11-12, 15-16 and 19-20 (the numbers are silkscreened on the PCB board)
 - To remove the adapter, simply remove the two screws on the back of the piece that covers the DB9 port

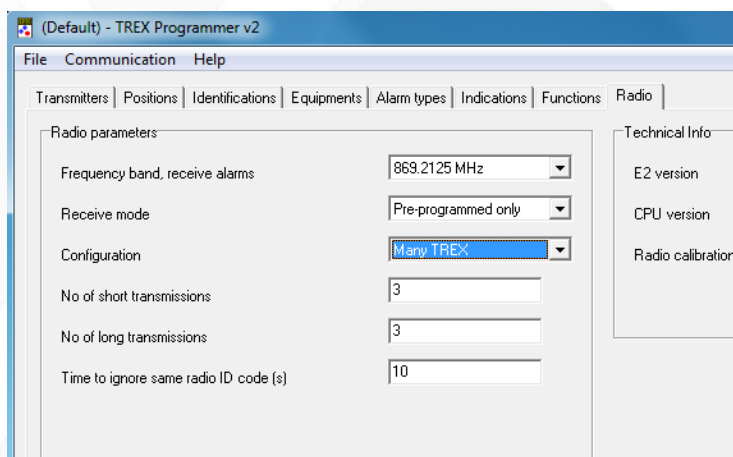


- Cable RJ45-DB9, between Dtect and Serial adapter. This must be configured with the following pinout (pins connection between connectors):
 - 1-1
 - 2-2
 - 5-5

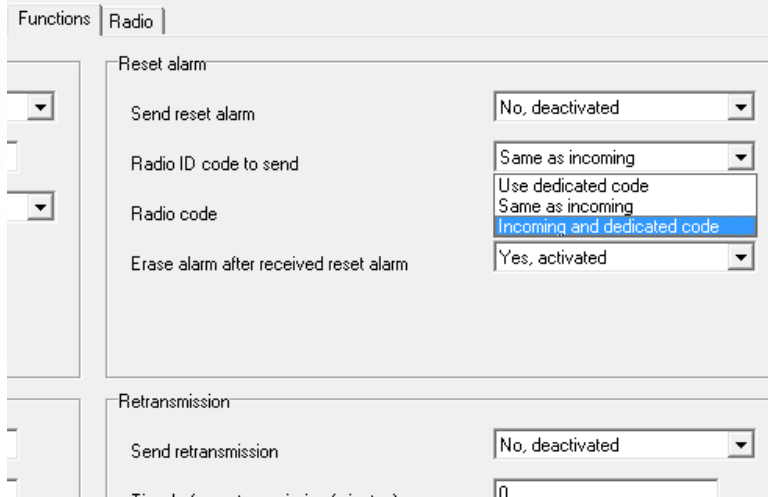
TREX UNIT:



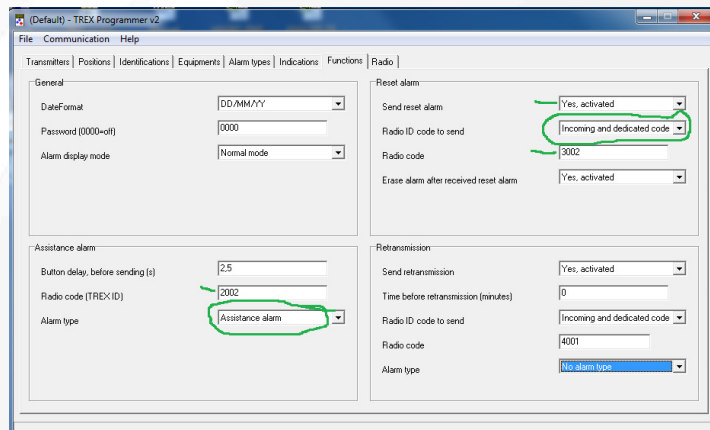
- By default it must be configured as follows:
 - Radio->Configuration : Many TREX



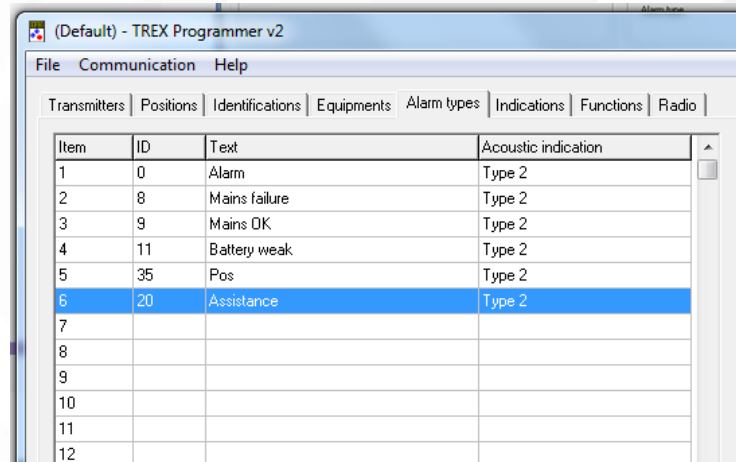
○ Functions-> Radio code:



○ The radio codes for reset and assistance must be configured: radio code and incoming.



- In Alarm Type, the help signal must appear configured with the id alarm code=20



Item	ID	Text	Acoustic indication
1	0	Alarm	Type 2
2	8	Mains failure	Type 2
3	9	Mains OK	Type 2
4	11	Battery weak	Type 2
5	35	Pos	Type 2
6	20	Assistance	Type 2
7			
8			
9			
10			
11			
12			

5. Software installation

First you must connect and install the USB-Serial (RS 485) to create a new serial port on your computer. This lets you display it when you install the application. If not installed before, the port, where the device is attached, must be manually configured in the configuration file. If you also install the device DTECT, depending on configuration, powered and on, the device starts to operate and receive alarms after installation.

5.1 Prerequisites

In Windows Vista

The User Account Control must be disabled.

- There is no need to install the whole package. Windows installer and the .NET Framework 3.5 are already installed.

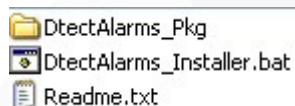
In Windows XP, it is necessary to install Windows <installer and the .NET Framework 3-5. In case they were already properly installed, it will not be necessary to reinstall them.

Same happens to SQL Server 2005 Express and Crystal Reports for .NET, if they already had been installed in a previous installation and everything is correct, it is not necessary to reinstall them.

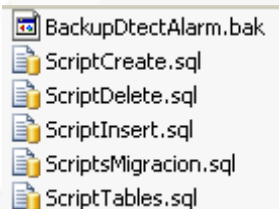
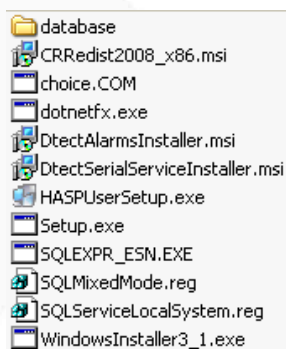
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The installation of the Framework .NET 3.5 and SQL Server 2005 Express can take some minutes.

- a. First, you must have the following folder structure:

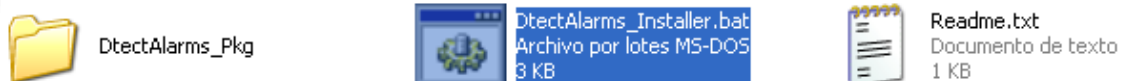


The subfolder "DtectAlarms_Pkg" contains:



DtectAlarms_Installer.bat

Then you double-click on the installer: **DtectAlarms_Installer.bat**



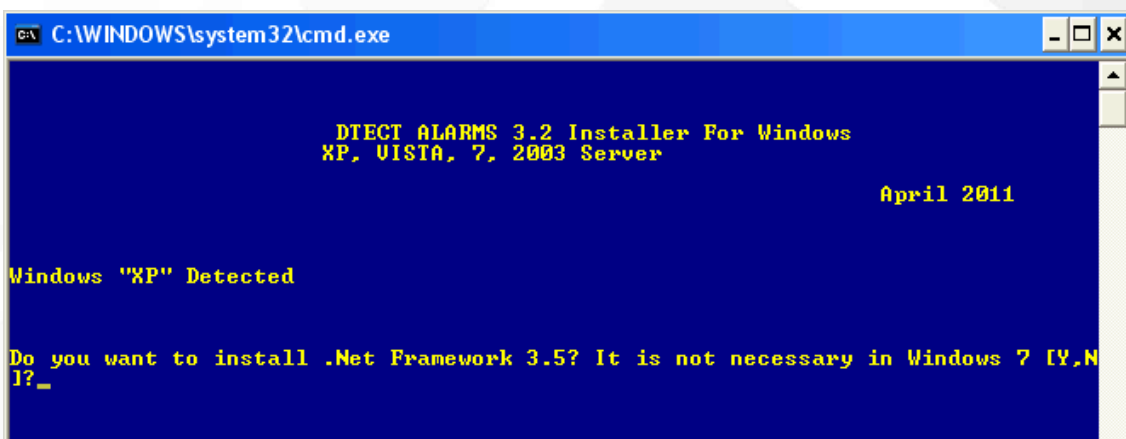
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b. USB key license



5.2 Installation process

When you double-click the installer: **DtectAlarms_Installer.bat**, the following screen (console) will appear:



```
C:\WINDOWS\system32\cmd.exe

          DTECT ALARMS 3.2 Installer For Windows
          XP, VISTA, 7, 2003 Server

                                     April 2011

Windows "XP" Detected

Do you want to install .Net Framework 3.5? It is not necessary in Windows 7 [Y,N]
I?_
```

Then, there is a consultation about the components that need to be installed:

- Framework 3.5
- Windows Installer 4.5
- Patch for MSXML 6
- SQL Server 2008 Express: Installation of this component will reset the administration password of the database if it already exists.
- .NET Reporting Runtime (Crystal Reports)

This process will ask if you want to install each of the components:

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Framework of .NET 3.5, if it has not been installed. In Windows Vista is always installed.

Do you want to install .Net Framework 3.5? It is not necessary in Windows ? [Y,N]?
1?N

Installation of **Windows Installer 4.5**. Necessary only in Windows XP, if it has not been installed.

1) Do you want to install Windows Installer 4.5. It is recommended [Y,N]?

SQL Server 2008 Express

If you already have a DB server wherever the data reside, skip this step. This server must be a SQL Server 2008 in any version.

There are several prerequisites for installing SQL Server 2008 Express:

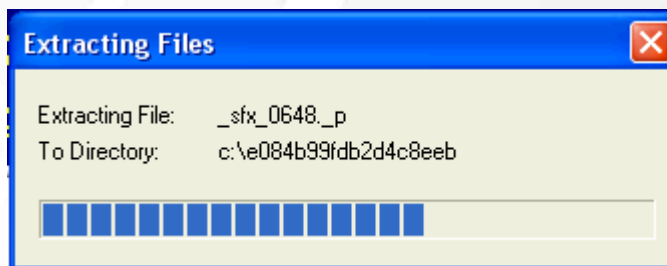
- Patch for MSXML 6, included in the installation process.

2) Do you want to patch MSXML6. It is recommended [Y,N]?_

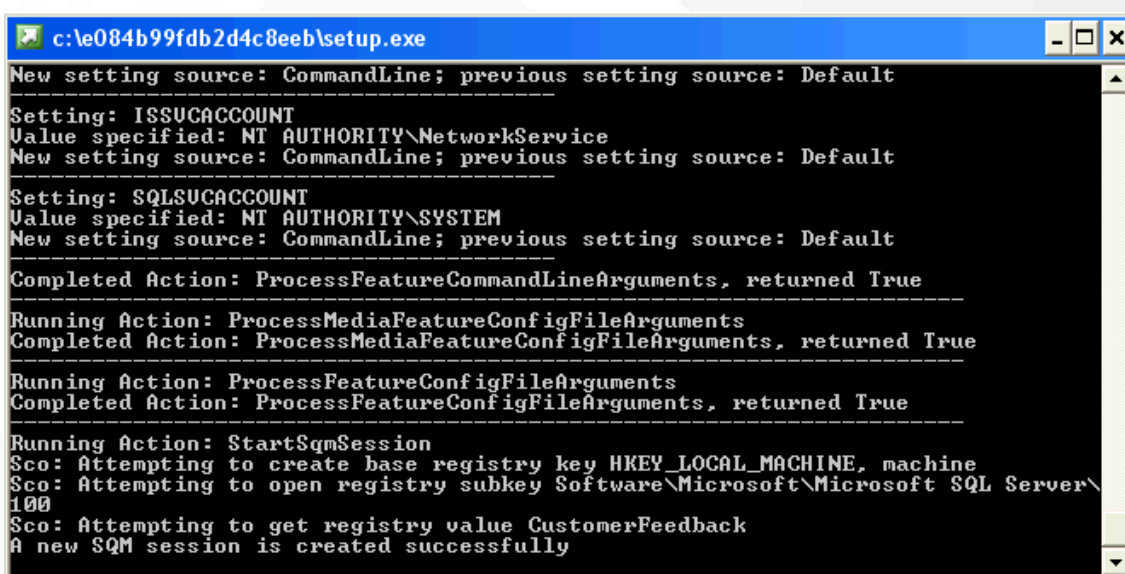
- Windows reconfiguration language. To set the language, you have to click on Start -> Settings -> Control Panel and locate an icon labeled Regional and Language Settings.
- PowerShell needed in Windows 2003 and XP and Vista, depending on the Service Pack. It is included in the installation package but not in the installation process. Normally not necessary.
- At this point, you should restart the computer and re-run the installer. It is not always necessary, but if necessary, it is not known until the SQL Server installation failed.

Please, before installing SQL Server 2008 Express, it is recommended to reset your Windows language configuration in: Control Panel-Language Settings (even if it is already configured)
3) Do you want to install SQL SERVER 2008 Express. It is recommended [Y,N]?




In the installation process the installation package of SQL Server 2008 Express will be decompressed and the installation will be unattended, this process may take several minutes. You need to wait until the process of installing this package has ended.



Here is displayed the installation of SQL Server 2008.



Once completed you should verify that the new service in SQL Server 2008 Express is running. This requires going to Start-> Control Panel -> Administrative Tools -> Services:

 Sistema de eventos COM+	Admite el Servicio de notificación de event...	Iniciado	Automático
 SQL Server (SQLEXPRESS)	Proporciona almacenamiento, procesamie...	Iniciado	Automático
 SQL Server Browser	Proporciona información sobre la conexión		Deshabilitad...

If the service is not running, start it. If it does not exist, there has been an error in the installation of SQL Server 2008, to know the cause of the failure, go to the following address:

In this address there will be a file containing a brief history of the installation. In addition there will be a directory on that path with the name of the date and time of installation, within that directory, there is an html file, visible to the browser containing the prerequisites which are not met. This file is called:

SystemConfigurationCheck_Report.htm

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.NET Reporting system

```
4> Do you want to install .Net Reporting Runtime. It is recommended [Y,N]?N
```

It is necessary to install the USB license key drivers. If it was previously installed, just click N to skip this step.

```
5> Do you want to install Driver for USB-Key. It is recommended [Y,N]?Y  
Installing USB-Key driver...
```

Then the installation will continue.

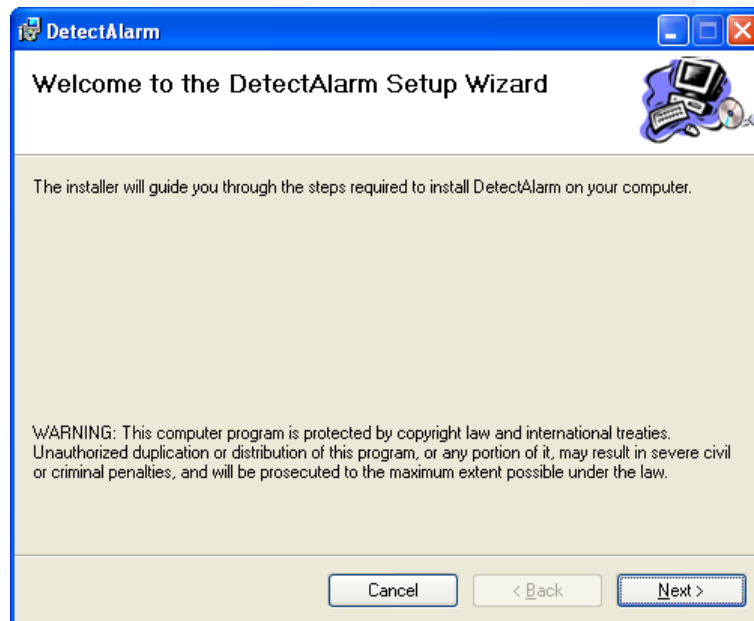
```
Installing DTECT ALARMS ...  
An USB-LICENSE-KEY is needed. Please if you don't have it, please contact to.  
by phone:      +34 902 365 748  
by email:      Dpto.Tecnico.Taller@gruponeat.com  
subject:      DTECTALARMS USB Key License  
  
PLEASE BE SURE USB-LICENSE-KEY IS ALREADY PLUGGED  
CHECK USB-LICENSE-KEY RED LIGHT INDICATOR IS ON  
Presione una tecla para continuar . . .
```

Before starting the application installation it is necessary to have the USB license key. If you don't have this key the contact data will be displayed on the screen for requesting.

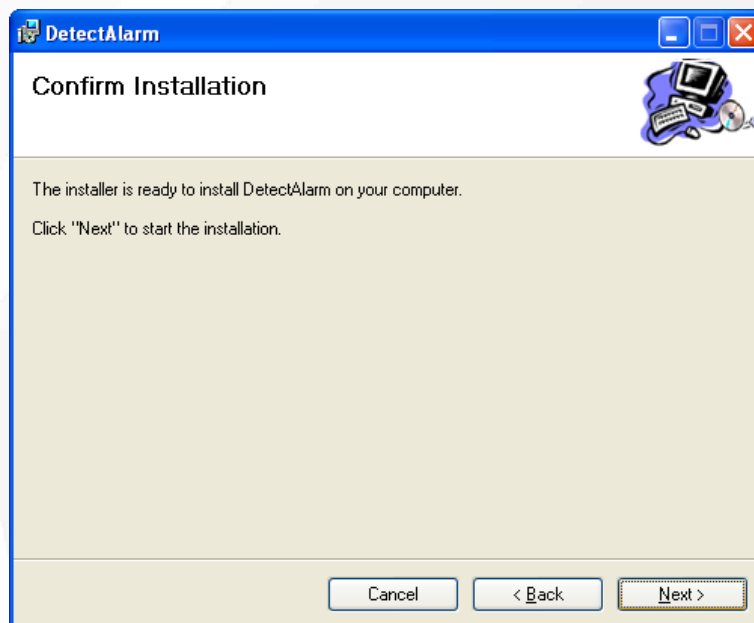


At this time the USB key must be plugged into a USB port. If everything is correct, the key must have lit a lamp. If not, check that the USB key driver, in the previous step, is properly installed.

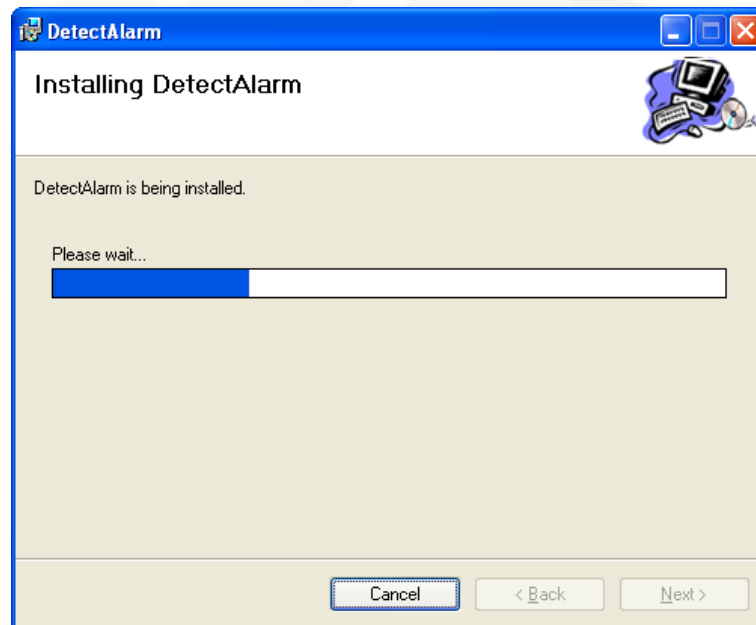
Then the system installation will begin and the following screen will be displayed.



Then, you have to click on next.



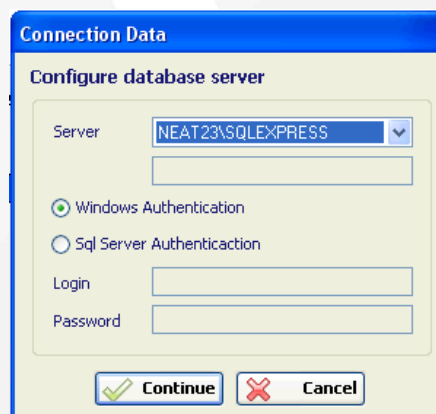
You have to confirm the installation by clicking on next. After this, the installation starts.



The select language will be shown:

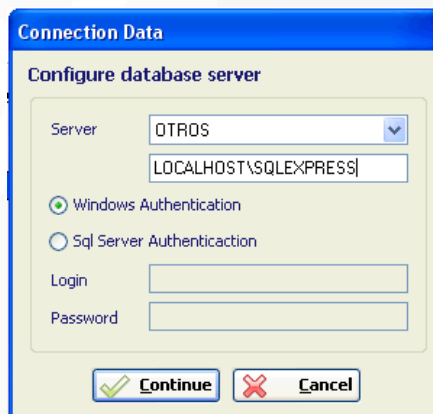


Configuration of the access to the DB server:

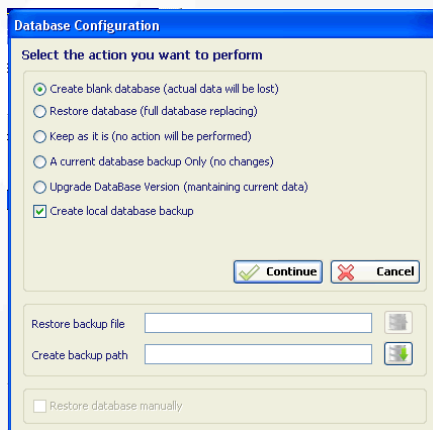


An available servers list from the network will appear. If you do not know or cannot find the name of the server where the DB resides, you can select the last option "OTHER" and enter the host name by adding

"\SQLEXPRESS". If you do not know the name of the machine, refer to it as **localhost**, as in the example:



Database configuration



The installer will recognize automatically the existence of a previous installation. If there is no previous installation of the application, it will only be displayed the following option:

Create a new data base (in blank)

If a previous installation already exists, the following options will be shown:

Restore the database: It has several utilities:

- Restore a security copy after a disaster.
- Restore a security copy of a database of an installation, configured in other place.



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Leave everything as it is: This allows either not touching the database or doing any modification, because you know that the version is correct and you just want to update the application.

Update DataBase Version: It updates the system from the previous version V1.0, V2.0, V2.3 to the current version.

Any of these options makes a backup of the database in the installation path of the application with the date and time. This allows that if you have made a mistake in selecting an option, the existing database could be recovered.

Furthermore, if the device that the installer uses to make installation is reading and writing, as a USB memory, not valid for CDs or DVDs, the installer will get a copy of the database on his pen drive. The database will be as it was before installation.

The installation of the application ends.

The installation service, which attends the DTECT device, continues.

The installer asks if you want to install the DTECT Serial Service.

Do you want to install Dtect Serial Service? [Y,N]?

When the service installation is finished, you will be asked if you want to start the service at that moment. If not, it will be restored automatically when the computer is restarted.

Do you want to Start DtectSerialService? It is recommended [Y,N]?

DtectSerialService is a standalone application. It is a Windows service that will receive alarms through DTECT device. This service allows alarms can still be received even if the application is not executed.

In DtectSerial installation process, you will be asked about the RS485 serial port where the DTECT device will be connected and the TCP port where the alarms from the device D-Server will be received.

Configure Ports

Serial Port Register	TCP Port Register
COM1	OTHER
	11000
<input checked="" type="checkbox"/> Continue	<input type="checkbox"/> Cancel



It displays a list of available ports in the system and an entry for the TCP port that will be connected to the device D-Server. The default port is 11000.


As before, you will be asked the access to the database.

6. Manual configuration of the system

6.1 File Configuration paths

The configuration file is located in the installation path of the application **C:\Program Files\NEAT\DtectAlarms** and in the installation path of the DtectSerial service **C:\Program Files\NEAT\DtectSerial**

It has the following name for the two components and for the application and service:

 SistemaDtectAlarm.UserInterfaces.exe.config 4 KB XML Configuration File

6.2 Configuration of the Dtect ports

In the installation path of the service **C:\Program Files\NEAT\DtectSerialService\DtectSerial.exe**.

These configuration files are files of XML tags that can be easily understood. The tags which begin and end with dashes are comments or are annotated configurations that have no effect. *<! - - Example ->* in the example below they are in italics.

In the section **<configSections>** an entry will have to be added for each port you want to include in the system:

```
<configSections>
  <section name="Port1"
    type="System.Configuration.NameValueSectionHandler"/>
</configSections>

<Port1>
  <add key="portName" value="COM3"/>
  <add key="baudRate" value="9600"/>
</Port1>
```

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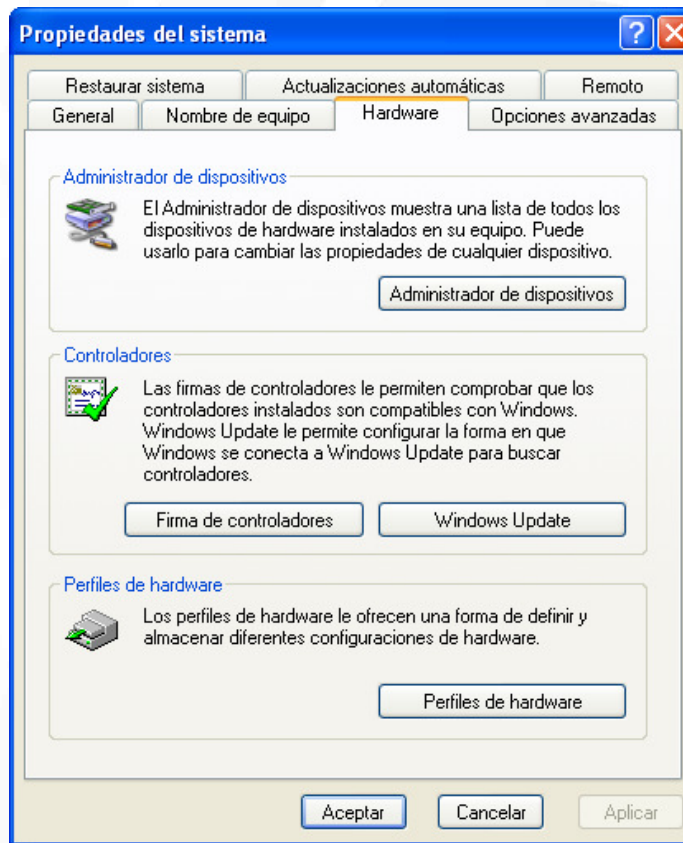
```
<add key="dataBits" value="8"/>
<add key="parity" value="N"/>
<add key="stopBits" value="1"/>
</Port1>
```

More ports can be added, if necessary.

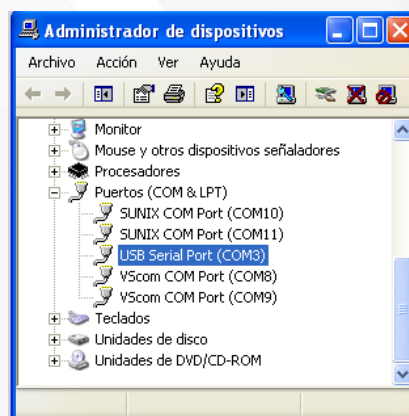
```
<!--<Port2>
  <add key="portName" value="COM12"/>
  <add key="baudRate" value="9600"/>
  <add key="dataBits" value="8"/>
  <add key="parity" value="N"/>
  <add key="stopBits" value="1"/>
</Port2>-->
```

To find out where the RS485 port with serial adapter is configured, go into Device Management, on the icon in the Windows Control Panel System.

You will find the following example:



And in the Devices Management:



It will appear as USB Serial Port, the port name will be displayed in parentheses and it is the one that should appear in the configuration file.

This classification depends on the manufacturer of the device, so if you use a device other than the standard, perhaps the USB Serial Port name, is different

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The speed is always 9600, 8 data bits, 1 stop bit and no parity.

6.3 Configuration of connection to database

By default, the connection path is. **\ SQLEXPRESS.**

The dot "." indicates the computer, where the configuration file is located. \ SQLEXPRESS is the name of the instance of the DB.

The rest of the parameters should not be changed. The default configuration should work always.

This parameter indicates the network computer which contains the database.

```
<connectionStrings>
```

```
  <add name="cnDtectAlarm" connectionString="Data
Source=.\SQLEXPRESS;Initial Catalog=DtectAlarm;User
ID=sa;Password=adm" providerName="System.Data.SqlClient" />
```

```
  <add
name="SistemaDtectAlarm.UserInterfaces.Properties.Settings.DtectAlar
mConnectionString" connectionString="Data
Source=.\SQLEXPRESS;Initial Catalog=DtectAlarm;User
ID=sa;Password=adm" providerName="System.Data.SqlClient" />
```

```
</connectionStrings>
```

In the event that the security of access to the database was integrated, it should be added to the parameter connectionString the string Integrated Security=True and remove the parameters User and Password:

```
  <add name="cnDtectAlarm" connectionString="Data
Source=.\SQLEXPRESS;Initial Catalog=DtectAlarm; Integrated
Security=True " providerName="System.Data.SqlClient" />
```

Configuration of the error log file of the application.

The application saves by default in C: \ Log_Access_Data a record for any errors that may arise in the application and in case of failures, must be copied to be analyzed by the NEAT team.

This path can be modified, but you should leave it default.

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```
<!--Directory name containing the log - TEMPORAL--> <add  
key="path" value=""/>
```

```
<!-- Directory name containing the log-->  
<add key="Directory_name_log" value="Log_Access_Data"/>
```

Manual configuration of language

These are the available languages and their codes:

- Spanish es-ES
- English en-GB
- German de-DE

It allows to change the language of the application between English value="en-GB" and Spanish Values="es-ES"

Configuration of the alarm siren in queue

It allows to change the frequency with which the sound is played when there are pending alarms. It is a value in seconds.

```
<!-- Delay time in seconds of the alarm ´s sound -->  
<add key="Time" value="5" />
```

Custom Configuration

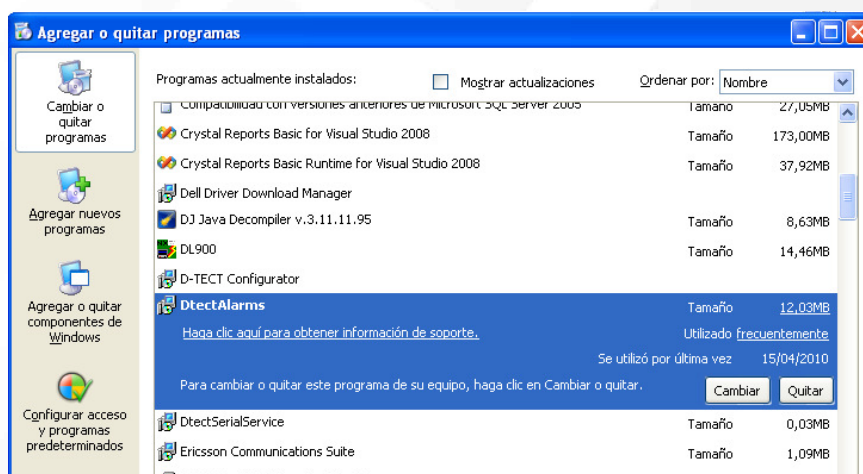
It allows you to change the log to put the client´s one, so, the residence can customize its reports.

```
<!-- Reports log -->  
<add key="Logo" value="C:\Reports log\images.jpg" />
```

7. Uninstall

This is necessary if you want to delete the application of the system or if you want to upgrade the DtectAlarm version.

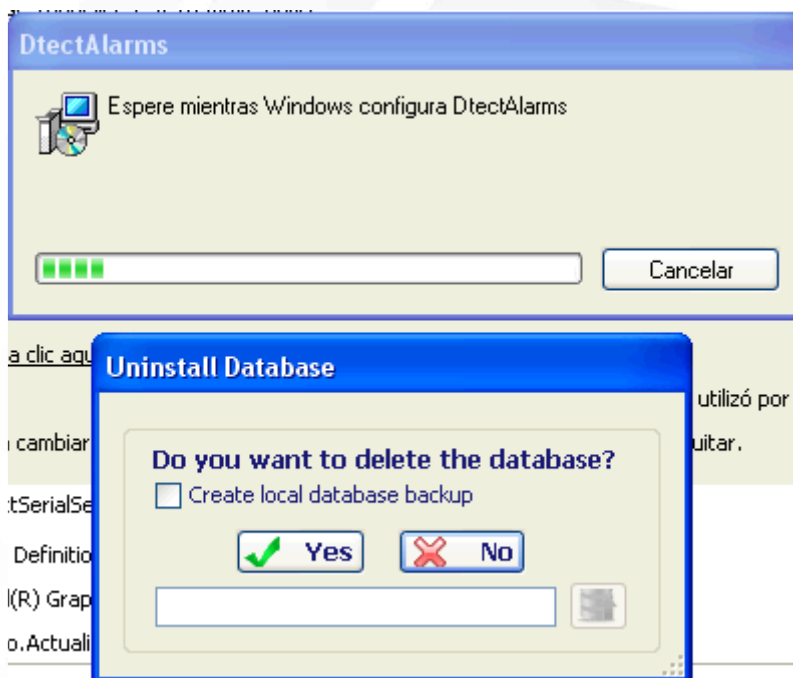
To uninstall the system just go to Start -> Settings -> Control Panel -> Add or Remove Programs.



Here the DtectAlarm application and service DtectSerialService can be seen. They are those that make up the system.

When reinstalling DtectAlarm to upgrade an older version, it is possible that the installer deletes the old installation, but probably Windows will report that the application is currently installed, if so, you should do a manual uninstall.

At uninstalling it is possible to choose whether you want to remove also the DB or leave it intact. This choice to respect the DB, allows uninstalling the application in the case where we have to do an upgrade without losing data.



In case you want to remove the application, you must repeat the procedure with DtectSerial.

8. Log on and general concepts

When entering the DtectAlarm system from your desktop using the icon below:

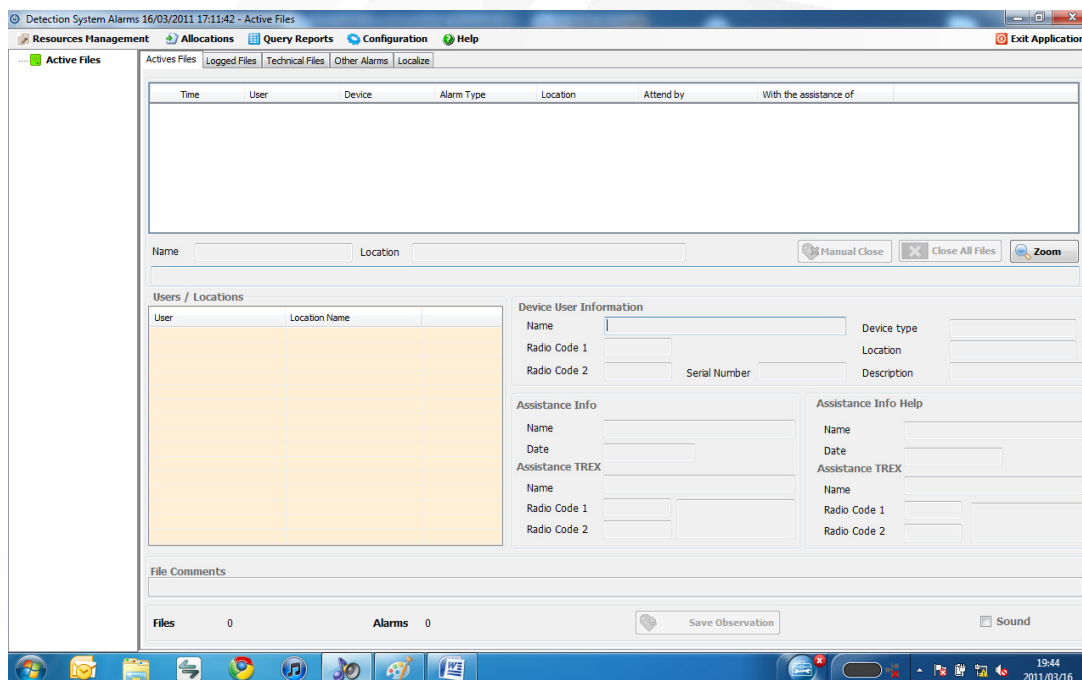


A main screen will be opened, in which all the operations will be carried out.



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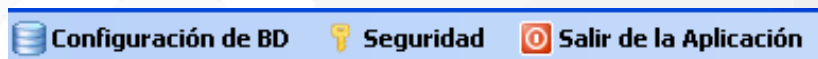
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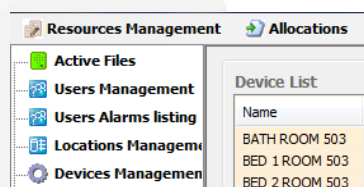
The main screen contains a menu with the following links:



You can find the following options on the right side of the menu:



On the left side of the screen a white background list is displayed. All the management tools, you have access, remain open in this list. This allows you to work with several tools at the same time while alarms are handled or different entities are managed.



Every time you select a management option, that option will remain open on the left side. If you try to enter to any of them again, the menu

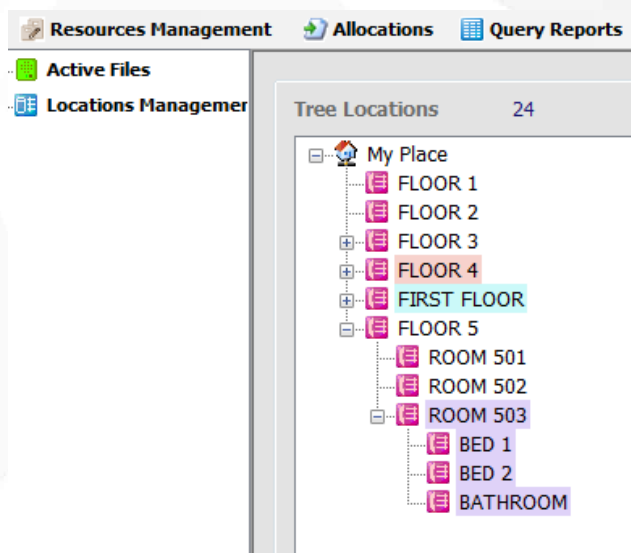


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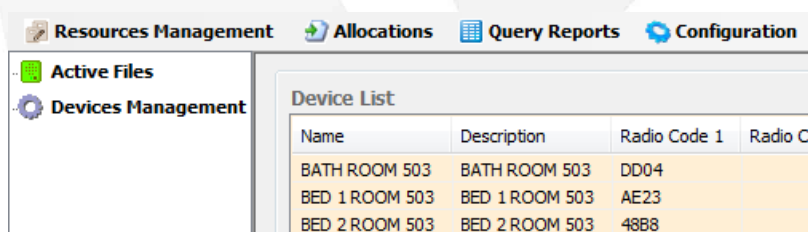
will display a warning indicating that management interface is already open for work.

Resource management: when you select it, the following options are displayed:

- Location management: It allows you to insert, edit or delete a location. It also allows grouping them to give treatment to devices and users all together.



- Devices Management: This link goes to the Device Management screen that allows you to insert, modify or delete an installed device in the residence and also to assign a location to it.



- Assistant Management This link allows you to insert, modify or delete an assistant.



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Name	Registration Date
BEGOÑA	08/02/2011 18:00:32
LOLA	08/02/2011 18:00:17
ROCIO	09/02/2011 09:21:43
SUSANA	09/02/2011 09:51:41

- User management: This link goes to the User Management screen that allows you to insert, modify or delete a user; it also allows you to assign or unassign a device to it.

- Gestión de Recursos
- Asignaciones
- Gestión de Ubicaciones
- Gestión de Dispositivos
- Gestión de Usuarios
- Gestión de Auxiliares

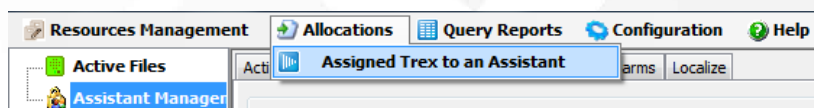
Name	Location	Type
JOSE GARCIA	HAB 301	DEMENTIAL
LUISA MARTINEZ	CAMA 1	NORMAL
ANTONI PEREZ	CAMA 2	NORMAL
PETER GARCIA	BED 1	NORMAL
LARS MALDINI	BED 2	NORMAL
ANA BUSH	ROOM 501	DEMENTIAL



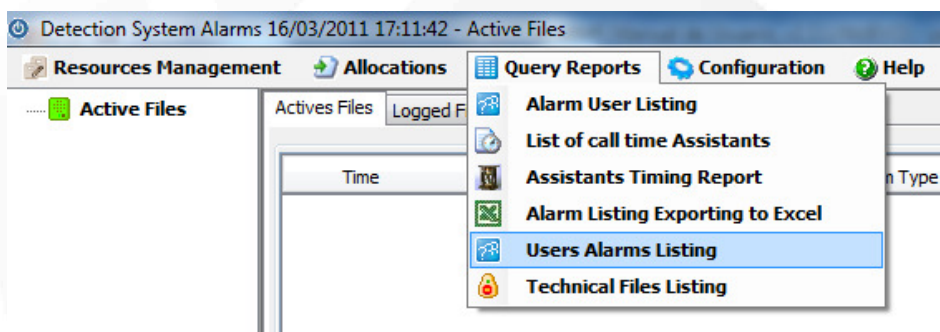
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Assignments: When you click on it, the following options are displayed:

- Assignment of Trex to Assistant: This access takes to the screen Assignment of Trex to Asssitant that lets you assign or return a Trex to an Assistant and make comments about this operation.



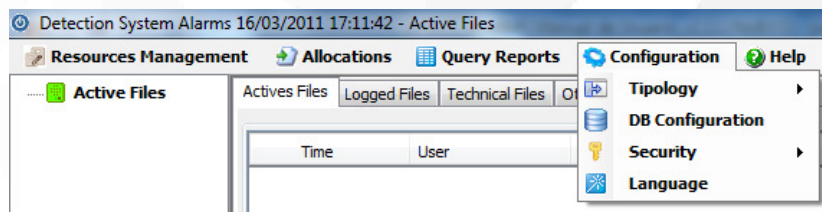
Queries: it allows you to get reports out about users, assistants and also it allows you to export alarms.



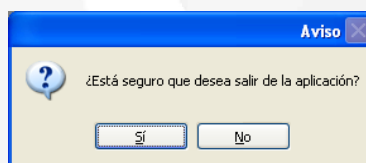
In this query module there are a series of defined reports that allows you to analyze the alarms that have occurred in the center; this information can be filtered by different parameters obtaining valuable information for the center management related to quality care levels on the alarms produced.

Configuration

On the right side of the menu bar, there are the following options:



- **Types Management:** It is part of the advanced settings and requires the administrator password which is set in the Security tab. It allows you to include new types of devices in the system as well as new types of alarms. It also allows the installer to register new types of devices in the system when new ones are designed.
- **Database configuration:** It allows backing up the Database.
- **Security:** It allows setting an administration password to enable certain functions.
- **Application Exit:** It exits the application, but before closing the system prompts for confirmation.



Concepts:

It is necessary to make a number of clarifications to facilitate the use of the application before beginning the registration of entities that comprise the system.

The system stores information about:

- Locations: They provide the system with the structure about the availability of the different dependencies that installation, where the service will be provided, has.
- Devices: They are electronic devices that NEAT offers to its clients to provide various services within the social health and care sectors. These devices are communicated via radio technology and are identified by a code unequivocally.
- Users: People who receive the care service and interact with the system through multiple devices.
- Assistants: People who help a resident, when there is a service request.

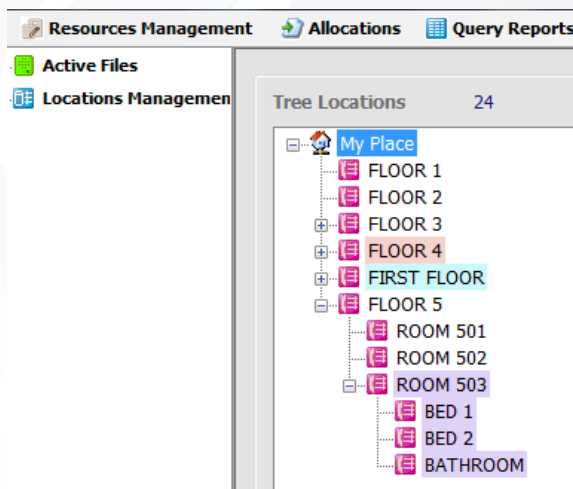
8.1 Locations

They are represented like a tree diagram. The parent node must be the main installation, for example: the residence name. The following picture simulates a main installation:



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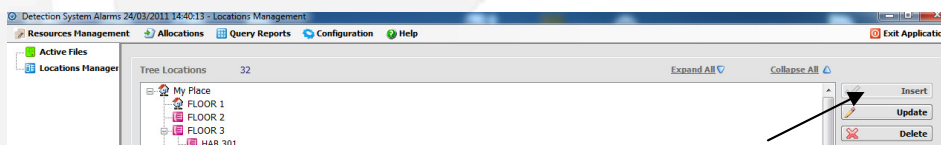
Each location has a local name, like a room, "room 503" and a full name like "Residence (Example: My place) -> Fifth Floor -> room 503" -> Bed 1"

The properly designing of the tree that includes all the center dependencies, will be essential for the system's successful deployment, facilitating the subsequent device assignment work and of users in areas that allow easy identification.

8.1.1 Add Locations

Insert, to add a new node or location is necessary to select the parent node where you want to add the location.

To insert a new location: First, you must select which branch of the tree will belong to the new location (daughter location), if it will not belong to any branch do not select anything (parent location), then click on **"Insert"**. That is, first check the parent, the location that will contain it and then click insert.





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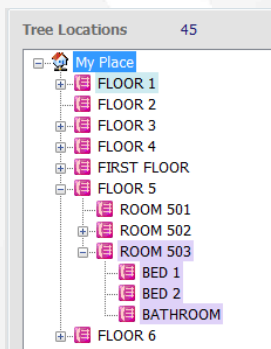
Location fields will be enabled, the obligatory ones will appear in yellow. Fill the desired fields and then click on the **Save** button to store the changes.

Location in: FLOOR 1
Name: ROOM 101
Description: BED ROOM 101 IN FLOOR 1

Save
Cancel
Close

- Group Locations (Group children)
- It allows you to establish a set of locations like it were only one. This function will be explained in the following sections. Also this function is the reason for the different color labels in some locations.

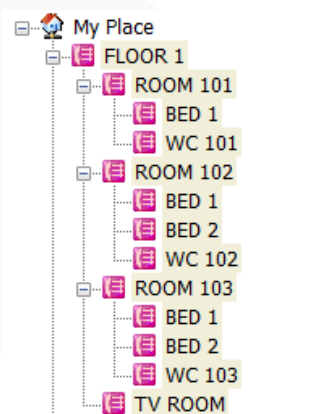
It allows you to group related alarms in a same file. For example a location composed by several places -> one room has two beds and a bathroom. There would be a pear button on each bed and a bath pull cord on the bathroom. The user can be assigned to the bed he will sleep on, but any alarm sent from this room will be assigned to the same record. This is because the bath pull cord is shared by the occupants of the room. This way we will know who is asking for help. In a set of locations, every alarm will be managed as if it came from one location, preserving the information of the location assigned to a user. If I have two users, one for each bed, you need to assign a user to his bed, but the two beds and the bathroom will be grouped in a set generated from the room. The assistance wall buttons which indicate the start and end of an assistance task must be assigned to the room. This way, when a user sends an alarm from his bed, the system will record that the assistant is attending an alarm from this specific room.



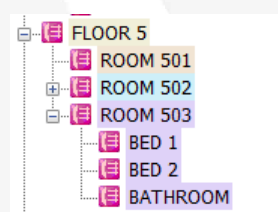
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If you want to group a branch to separate it from the rest of the group, you need to select the parent node, so this node will be separated from its previous set.

In the following example we will group all locations of the first floor, but separating the alarm management of each room. To do this we will create first the main set which will group all locations, in this case the **First floor**:



After that the set will appear in different color. Now you need to select the sets which you want to make independent, then click on **Group**. In this case room 501, 502 and 503.



The different colors indicate that the nodes belong to different sets.

- Ungroup locations (Ungroup children)

Ungroup locations (Ungroup children): reverts the group operation or excludes one or several locations from one location.



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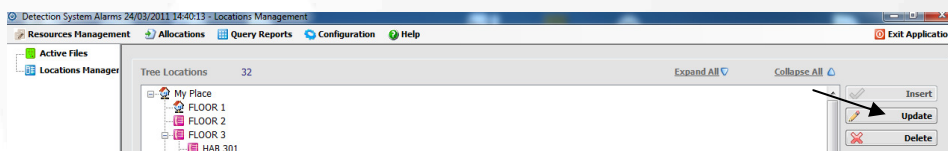
As we have grouped the nodes, we can ungroup them. You can extract a specific set from an existing one if you want. For example, if you have grouped all the locations of a corridor, like living rooms, bedrooms, bathrooms, etc., and because of the floor hierarchy that represents that floor distribution there is a room which belongs to Direction Department, and that we don't want that the alarms coming from this room (i.e. smoke alarms) appear on the records of this floor, we can exclude this area, clicking first on it and then clicking on **Ungroup button**.

The location group and ungroup behavior can be done at any time. It interferes directly in how the alarms sent from these locations will be grouped in a file. It can also affect the queries which are done on the reports when filtering by location.

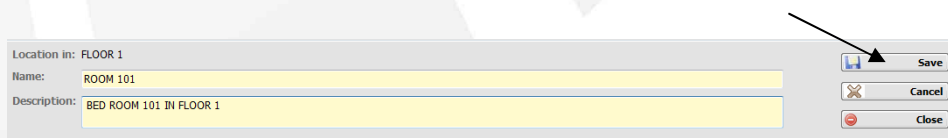
8.1.2 Edit Locations

Edit: It allows you to change the name or description.

If you want to edit a location, first you have to select an existing location and click on Edit.



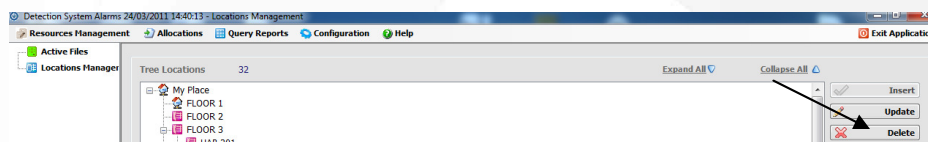
Location fields will be enabled, the obligatory ones appear in yellow. Modify the desired fields and then click on the Save button to store the changes.



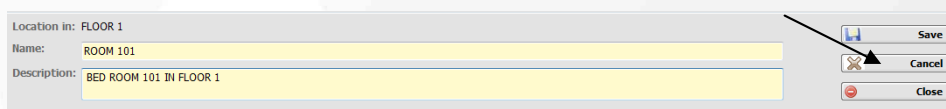
8.1.3 Remove Locations

Remove: It removes a location node which doesn't have children nodes. You cannot remove a node with children nodes associated.

If you want to remove a location, first select a node without any children associated and click on **Delete**. (Example: In the picture, room 101 is associated to room 102, so it cannot be deleted).



If you want to cancel the changes click on **Cancel**.



8.1.4 Locations Management

When you click on **Locations management** placed on the left part of the screen the following data will be shown:

Number of locations that the installation will need. There will be locations which have users and devices assigned, and others, instead, with none assigned, but they are there for showing the location distribution to facilitate the alarm location or the user location.

1. **Locations tree:** List of locations showing the system's hierarchy. One room contains two beds and one bathroom, for example, the room is the parent node and the beds and the bathroom are the children nodes.

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2. **Expand all:** It shows all hierarchies available.
3. **Collapse all:** It shows just the hierarchical parent nodes. You can collapse each parent node by clicking the + symbol.
4. **Insert,** to add a new node or location. It is necessary to select the parent node where you want to add the location.
5. **Modify** allows you to change the name or description.
6. **Delete,** removes a location node which does not have children nodes. You cannot remove a node with children nodes associated.
7. **De-select,** removes all the selections.
8. **Route** shows the full name of the location, from the situation where the location is placed until it arrives to the parent node.
9. **Location** is referred to the selected one in the tree (the selected one with the mouse click).
10. **Name** assigned to the location.
11. **Description** allows you to establish a comment about a place in particular. It would be very useful in case of having two places with a similar or equal name.
12. **Save** allows you to confirm the changes of the location.
13. **Cancel** allows to revert any modification done.
14. **locations** allows you to establish a set of locations as one location. This function will be explained in the following sections. Also this function is the reason for the different color labels in some locations.
15. **Ungroup locations** reverts the group operation or excludes one or several locations from one.
16. **Close** button closes the Location Management screen, removing it from the left list.



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The screenshot displays the NEAT software interface. At the top, a 'Tree Locations' panel shows a hierarchical tree structure with nodes like 'My Place', 'FLOOR 1', 'ROOM 101', etc. Callout 1 points to the tree header, 2 to a room node, and 10 to a sub-room node. To the right, 'Expand All' and 'Collapse All' buttons are labeled 3 and 4. A toolbar on the far right contains 'Insert' (5), 'Update' (6), and 'Delete' (7) buttons, along with 'Child grouping' and 'Child ungrouping' options (15, 16). Below the tree, the 'Full Path to Location:' field shows 'My Place\FLOOR 1\ROOM 101' (9). The 'Location in:' field is set to 'ROOM 101' (11). The 'Name:' field contains 'ROOM 101' (14) and the 'Description:' field is empty (12). At the bottom right, there are 'Save' (13), 'Cancel' (14), and 'Close' (17) buttons. An 'Unselect' button is labeled 8.

8.2 Devices

8.2.1 Devices Registration

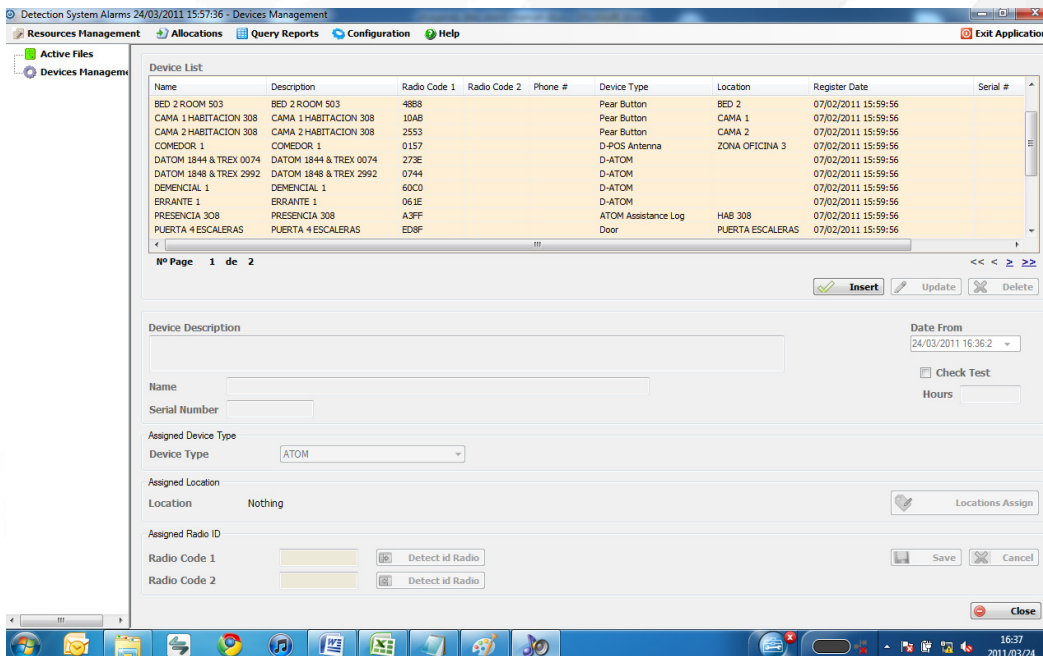
Once you have created the tree with the residence structure you must begin with the device registration by accessing to their corresponding section:



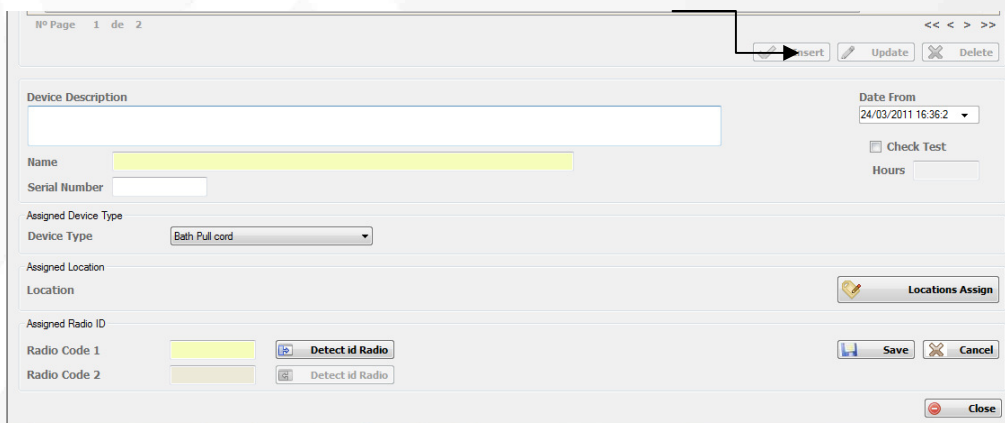


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By clicking on the **Insert** button you can register all the devices that comprise the installation:



After clicking this button, several fields will be enabled to be filled. The compulsory ones will appear on yellow. Then you have to fill the data, (as detailed below). Lastly click on Save button to record the changes.

In this section you have to pay special attention to the following sections:

a) Name, description and serial number:





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These 3 paragraphs help you to keep track of the device and its localization when it is assigned to a location; therefore it is recommended that the location is displayed in any text field. (In any case, this aspect is not relevant to the operation).

Device Description

Date From

24/03/2011 16:36:2

Name

Check Test

Serial Number

Hours

Device List

Name	Description	Radio Code 1	Radio Code 2	Phone #	Device Type	Location	Register Date
DATOM 1844 & ...	DATOM 1844 & TREX 0074	273E			D-ATOM		07/02/2011 1
ERRANTE 1	ERRANTE 1	061E			D-ATOM		07/02/2011 1
ZONA OFICINA 3	ZONA OFICINA 3	0157			D-POS Antenna	ZONA OFICINA 3	07/02/2011 1
ZONA JARDIN	ZONA JARDIN	01A9			D-POS Antenna	ZONA JARDIN	07/02/2011 1
ZONA OFICINA ...	ZONA OFICINA BAJO	01AA			D-POS Antenna	ZONA OFICINA 1	07/02/2011 1
BED 1 ROOM 503	BED 1 ROOM 503	AE23			Pear Button	BED 1	07/02/2011 1
BED 2 ROOM 503	BED 2 ROOM 503	4888			Pear Button	BED 2	07/02/2011 1
BATH ROOM 503	BATH ROOM 503	DD04			Bath Pull cord	BATHROOM	07/02/2011 1
START SERVICE ...	START SERVICE BOTON 503	532D			ATOM Assistance Log	ROOM 503	07/02/2011 1
DEMENCIAL 1	DEMENCIAL 1	60C0			D-ATOM		07/02/2011 1

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<< < > >>

Device Description

BED 1 ROOM 503

Date From

07/02/2011 15:59:5

Name

BED 1 ROOM 503

Check Test

Serial Number

Hours

b) Device types

The system behaves differently depending on the device you check, most are easily identified. In this section the ATOM ASSISTANCE LOG type is highlighted.

Assigned Device Type

Device Type

Assigned Location

Location

- ATOM ASSISTANCE LOG: this option will be checked in the case it is about the service time control button, i.e. it is the device that will allow you to control the time elapsed since the opening of a file (pressing the alarm) and the arrival to the room (ATOM pressing ASSISTANCE LOG); it also can control the exit if you press it at the end of assistance.





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Time	User	Device	Alarm Type	Location	Attend by	With the assistance of
18:23:15	PETER GARCIA	BED 1 ROOM 503	User Button	ROOM 503		
18:23:15	PETER GARCIA	BED 1 ROOM 503	User Button	BED 1		
18:23:45		START SERVICE BOTON 503	Attendance Started	ROOM 503		
18:24:04		START SERVICE BOTON 503	Attendance Finished	ROOM 503		

c) Device assignment to locations

All devices, except mobile Trex and D-atom, should be assigned to a location. This way you will be able to group them in the same file (example: Pressing, arrival and exit).

Device Description BED 1 ROOM 503	Date From 07/02/2011 15:59:5
Name BED 1 ROOM 503	<input type="checkbox"/> Check Test
Serial Number	Hours
Assigned Device Type Device Type Pear Button	
Assigned Location Location (My Place)FLOOR 5\ROOM 503\BED 1	Locations Assign

IMPORTANT: The Trex and DATOM mobile units will never be assigned to a location, so this section will remain blank.

d) Radio Code Assignment

NOTE: Every device, except the GSM/GPS tracking devices, has a radio code.

The radio codes capture is done in a very simple way, just select the type of device so the Radio Code corresponding fields will be activated.

In general, EXCEPT WITH THE TREX UNIT the field Radio Code 1 is enabled.

Click on the tab "radio code detection", press the device, capturing the radio code through the DTEC. (The radio code could also be manually typed in its corresponding box).





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Device Description
BED 1 ROOM 503

Name
BED 1 ROOM 503

Serial Number

Assigned Device Type
Device Type
Pear Button

Assigned Location
Location
(My Place)FLOOR 5\ROOM 503\BED 1

Assigned Radio ID
Radio Code 1
AE23

Radio Code 2

ATTENTION: TREX Unit

When you select the type of Trex device the two fields corresponding to the radio codes will be activated.

These radio codes are reflected in the Trex configuration software; you must read them and be absolutely sure of every one of them.

3066 HH (PANICO).Trex - Programador TREX v2

Archivo Comunicación Ayuda

Transmisores Posiciones Identificaciones Dispositivos Tipos Alarma Indicaciones Funciones Radio

General
Formato Fecha
AAAA.MM.DD
Clave (0000=off)
0000
Modo Alarma Display
Modo Normal

Señal de Reset
Enviar Señal de Reset
Sí, activado
Código de radio a enviar
Código de radio y entrante
Código de Radio
4066
Borrar alarma una vez recibida alarma de reset
Sí, activado

Alarma Asistencia
Pulsación botón
2.5
Código de Radio (TRES)
3066
Tipo de alarma
Alarm. Asist.

Retransmisión
Enviar Retransmisión
No, desactivado
Tiempo despues de la retransmisión
0
Código de radio a enviar
Código de radio y entrante
Código de Radio
Sin tipo de alarma

RADIO CODE 1: Enter the radio code of reset signal.

RADIO CODE 2: Enter the assistance alarm radio code.





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Device Description
TREX 3066

Date From
07/02/2011 15:59:5

Name
TREX 3066

Serial Number

Assigned Device Type
Device Type
TREX D-TREX

Assigned Location
Location

Assigned Radio ID
Radio Code 1
4066

Radio Code 2
3066

In order to group the alarms correctly, you have to pay special attention to this section, which is very important.

The alarms are reflected as follows:

Actives Files | Logged Files | Technical Files | Other Alarms | Localize

Time	User	Device	Alarm Type	Location	Attend by	With the assistance of
18:59:31	PETER GARCIA	BED 1 ROOM 503	User Button	ROOM 503	SUSANA	
18:59:31	PETER GARCIA	BED 1 ROOM 503	User Button	BED 1		
18:59:41		TREX 4095	Alarm Accepted		SUSANA	
18:59:54		START SERVICE BOTON 503	Attendance Started	ROOM 503	SUSANA	
19:00:08		START SERVICE BOTON 503	Attendance Finished	ROOM 503		

Name PETER GARCIA Location My Place\FLOOR 5\ROOM 503

In this picture you can identify:

- The user who made the alarm (opening of the record with date and time)
- Assistant who attends it. (with date and time)
- Room Arrival
- Room Departure

The care time control will be reflected only if there is a presence button in the room.

If while attending an alarm the assistant needs help from a partner, he must press the "ok" button of the TREX unit for 3 seconds, this generates an assistance alarm which is also reflected in the record.

Actives Files | Logged Files | Technical Files | Other Alarms | Localize

Time	User	Device	Alarm Type	Location	Attend by	With the assistance of
19:09:14	PETER GARCIA	BED 1 ROOM 503	User Button	ROOM 503	SUSANA	LOLA
19:09:14	PETER GARCIA	BED 1 ROOM 503	User Button	BED 1		
19:09:20		TREX 4095	Alarm Accepted		SUSANA	
19:09:29		START SERVICE BOTON 503	Attendance Started	ROOM 503	SUSANA	
19:09:37		TREX 4095	Alarm Accepted		SUSANA	
19:09:45		TREX 4095	Assistance alarm		SUSANA	
19:09:50		TREX 4088	Alarm Accepted		LOLA	
19:09:56		START SERVICE BOTON 503	Attendance Finished	ROOM 503		
19:10:02		TREX 4095	Alarm Accepted		SUSANA	



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Note: In order not to occupy radio positions in the Trex unit, the presence buttons will not be integrated in the Trex unit and only will be registered in the application Dtect Alarm, assigning them their location.

ATTENTION: D-TREX Unit

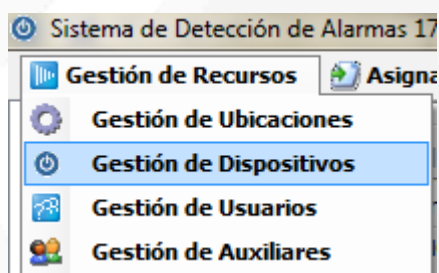
D-TREX Devices

D-TREX devices work with the application Dtect Alarm, along with the D- Server system.

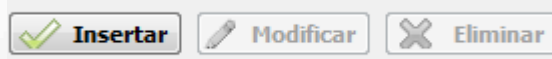
D-TREX Devices registration in the system:

To register a D-TREX:

Access the Devices Management option in the Resources Management menu:



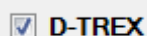
Click on Insert.



Select the type of device.



Check the D-TREX tab which appears on the right.





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D-TREX device has no own radio code. The radio code sent by the D-TREX is the assistant's radio code that uses it. All D-TREX devices and assistants that are in the system must be registered. Each assistant has a four-digit code that identifies him univocally.

The assistant's code is the radio code 1 used for the assistant.

Asignación Identificadores de Radio

Identificador de Radio 1

Identificador de Radio 2

There may be more assistants in the system than physical D-TREX in the installation, for example if there were multiple shifts. Every time an assistant uses a D-TREX, enters his ID number with which alarms will be identified.

After registering the D-TREX devices, you must assign each device to the corresponding assistant following the assistant code. Unlike the TREX, each D-TREX will be always assigned to the same user; it has no allocation or return, only an initial assignment

Inactivity Devices Control. Test Verification

To detect that a device has stopped working unexpectedly, you can configure the periodic sending of an automatic event, called Test. This event is generated automatically eventually to let people know that a device is working properly and is still active. A device like a smoke detector or a door's magnetic contact that is not used frequently, may send this alarm test to indicate the proper functioning autonomously, without producing an event from the device.

The test is an event sent by the device automatically. In case of inactivity or lack of use, the test can cause that a device confirms if it still works.

DtectAlarm incorporates a control to detect inactivity on any device. This requires configuring the test verification in device management.

Verificar test

Horas





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By checking the check box "Verify Test", you enable the Hours field. This field sets the number of hours after which, if you have not received any event, a technical alarm of lack of device test will be generated.

The recommended number of hours, (after which, if you have not received any event from the device, an alarm is generated,) is the one that you have configured for sending test alarms plus an hour. Depending on the criticality of the device, according to its use, the number of hours between tests will be greater if the device is critical, or less if not.

Test alarms also send the battery status, which can detect a low battery if its level is critical. This low battery warning appears on the tab of technical alarms.

This allows the personnel to be informed if a device stops working.

8.2.2 Edit devices:

If you want to edit a device, first of all you need to select the desired one from the list and then click on the **Edit** button.

Name	Description	Radio Code 1	Radio Code 2	Phone #	Device Type	Location	Register Date
DATOM 1844 & TRE...	DATOM 1844 & TREX 0074	273E			D-ATOM		07/02/2011 15:59:56
ERRANTE 1	ERRANTE 1	061E			D-ATOM		07/02/2011 15:59:56
COMEDOR 1	COMEDOR 1	0157			D-POS Antenna	ZONA OFICINA 3	07/02/2011 15:59:56
ZONA JARDIN	ZONA JARDIN	01A9			D-POS Antenna	ZONA JARDIN	07/02/2011 15:59:56
ZONA OFICINA BAJO	ZONA OFICINA BAJO	01AA			D-POS Antenna	ZONA OFICINA 1	07/02/2011 15:59:56
BED 1 ROOM 503	BED 1 ROOM 503	AE23			Pear Button	BED 1	07/02/2011 15:59:56
BED 2 ROOM 503	BED 2 ROOM 503	4888			Pear Button	BED 2	07/02/2011 15:59:56
BATH ROOM 503	BATH ROOM 503	DD04			Bath Pull cord	BATHROOM	07/02/2011 15:59:56
START SERVICE BO...	START SERVICE BOTON 503	532D			ATOM Assistance Log	ROOM 503	07/02/2011 15:59:56
DEMENCIAL 1	DEMENCIAL 1	60C0			D-ATOM		07/02/2011 15:59:56

Now the fields of the device are enabled for changes. When you finish the modifications click on **Save** button to record the changes.

Device Description: DEMENCIAL 1

Date From: 07/02/2011 15:59:56

Name: DEMENCIAL 1

Serial Number: [empty]

Assigned Device Type: D-ATOM

Assigned Location: [empty]

Assigned Radio ID: Radio Code 1: 60C0

Buttons: Detect id Radio, Save, Cancel, Close





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8.2.3 Remove Devices

If you want to remove a device, select the desired one and click on Delete button.

Name	Description	Radio Code 1	Radio Code 2	Phone #	Device Type	Location	Register Date
DATOM 1844 & TRE...	DATOM 1844 & TREX 0074	273E			D-ATOM		07/02/2011 15:59:56
ERRANTE 1	ERRANTE 1	064E			D-ATOM		07/02/2011 15:59:56
COMEDOR 1	COMEDOR 1	0157			D-POS Antenna	ZONA OFICINA 3	07/02/2011 15:59:56
ZONA JARDIN	ZONA JARDIN	01A9			D-POS Antenna	ZONA JARDIN	07/02/2011 15:59:56
ZONA OFICINA BAJO	ZONA OFICINA BAJO	01AA			D-POS Antenna	ZONA OFICINA 1	07/02/2011 15:59:56
BED 1 ROOM 503	BED 1 ROOM 503	AE23			Pear Button	BED 1	07/02/2011 15:59:56
BED 2 ROOM 503	BED 2 ROOM 503	4888			Pear Button	BED 2	07/02/2011 15:59:56
BATH ROOM 503	BATH ROOM 503	DD04			Bath Pull cord	BATHROOM	07/02/2011 15:59:56
START SERVICE BO...	START SERVICE BOTON 503	532D			ATOM Assistance Log	ROOM 503	07/02/2011 15:59:56
DEMEUCIAL 1	DEMEUCIAL 1	60C0			D-ATOM		07/02/2011 15:59:56

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Insert Update Delete

8.2.4 Devices Management

When clicking the Devices Management Main Menu the next screen will be shown:

1. **Devices list**
2. **Información** sobre cada dispositivo **Device information**
3. **Paging devices**
4. Scroll buttons for the **devices list**: Scroll to the first record "<<", Scroll one record backwards "<", Scroll one record forward ">" and Scroll to the last record ">>".
5. **Insert**: allows you to add a new device filling the obligatory fields. It is not possible to register a device with the same radio id of a previous one recorded.
6. Edit
7. **Delete** removes a device (in a logic way) from the system. The devices which are currently assigned to an assistant can't be removed until they are unassigned.
8. **Device description** allows you to insert observations about the device or its usage.
9. **Registration date**, automatically records the current time.
10. **Name**: A short referral to identify the device.
11. **Serial number** allows you to have the devices under control.



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12. **Device type.** It is very important because each device type has a different behavior.
13. **Location assignment** shows the locations tree allowing us to select the desired location. (See section Devices registration)
14. **Location assignment** shows the locations tree allowing us to select the desired location.
15. **Radio Identifier 1.** Every device, unless the GSM/GPS locatable devices, has a radio code. In the case of the TREX device, radio code 1 is configured as Reset.
16. **Radio Identifier 2.** The TREX devices have a second radio code, configured as Assistance and comes factory configured.
17. **Save.** It registers the device in the system
18. **Cancel.** It cancels the current data.
19. **Close**
20. **Locatable** mobile device telephone number.

If for any reason (for example, because it does not add anything to the system or creates confusion), you want to leave the device unassigned click on **No Location** and the device will not be assigned.

After assigning, the location will be assigned to the device and will be showed in the field **location** of the **Device Management** screen.



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The screenshot shows a web-based interface for managing devices. At the top, there is a 'Device List' table with columns: Name, Description, Radio Code 1, Radio Code 2, Phone #, Device Type, Location, and Register Date. Below the table is a form for editing a device, with fields for Name, Serial Number, Assigned Device Type, Assigned Location, and Assigned Radio ID. The interface includes navigation buttons like 'Insert', 'Update', 'Delete', 'Save', and 'Close'. Nineteen orange boxes with numbers 1 through 19 are placed over various elements of the interface to indicate specific points of interest.

8.3 Users

8.3.1 Users Registration

To register the residents (users) access the following section:

The screenshot shows the 'Detection System Alarms 24/03/2011 15:57:36 - Active Files' application. A menu is open, showing options: Resources Management, Allocations, Query Reports, Configuration, and Help. Below these, there are sub-menus: Locations Management, Devices Management, Users Management (highlighted), and Assistants Management. The main window displays a table with columns: User, Device, and Alarm Type.

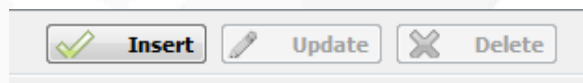
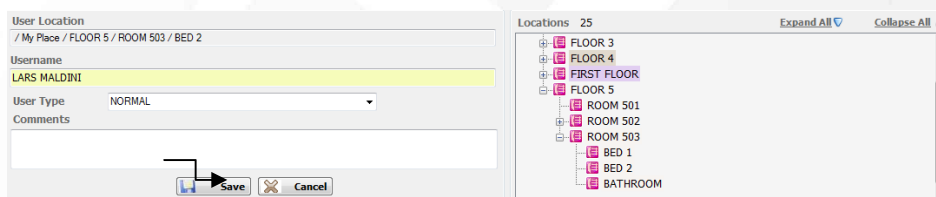


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If you want to add a user, first click on **Insert** button:

It is very important to complete the name, type of user and assign a location.

The image shows a software interface with two main panels. The left panel is titled 'User Location' and contains the following fields: a breadcrumb path '/ My Place / FLOOR 5 / ROOM 503 / BED 2', a 'Username' field with the value 'LARS MALDINI' highlighted in yellow, a 'User Type' dropdown menu set to 'NORMAL', and a 'Comments' text area. At the bottom of this panel are 'Save' and 'Cancel' buttons. The right panel is titled 'Locations 25' and shows a tree view of a building structure. The tree includes levels for FLOOR 3, FLOOR 4, FIRST FLOOR, and FLOOR 5. Under FLOOR 5, there are ROOM 501, ROOM 502, and ROOM 503. Under ROOM 503, there are BED 1 and BED 2. A BATHROOM is also listed at the bottom level. The tree has 'Expand All' and 'Collapse All' options at the top right.

User fields will be enabled, obligatory ones appear in yellow. Fill the data, assign a location (obligatory) and click on Save.

When a user is assigned to a location, all devices are assigned to it automatically, so that if an alarm is triggered from one of them, the information for that particular user is showed.

You must assign a device to a user only in the following cases:

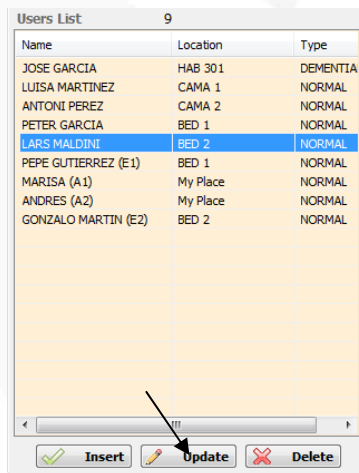
- The user is considered as a wandering and he is assigned a D-ATOM.
- If you want to monitor or control a user accurately and he is going to make exclusive use of that device (GPS or GSM Device).

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8.3.2 Edit User

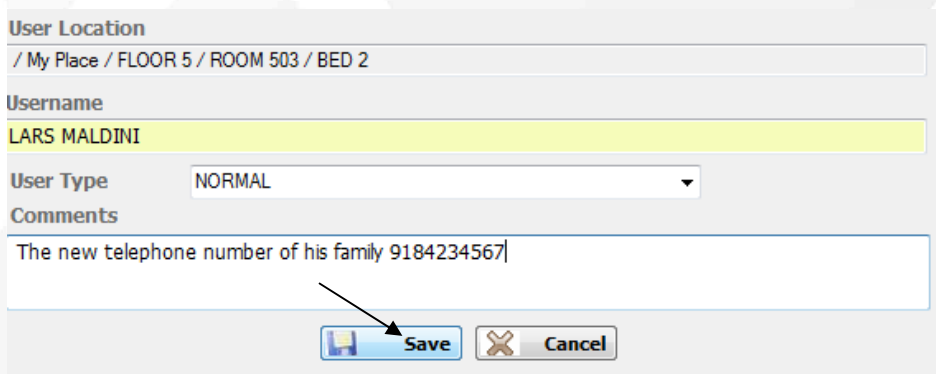
Edit: It allows editing a user registered in the system.

If you want to edit the user data, first select the desired record and click on **Edit**:



Name	Location	Type
JOSE GARCIA	HAB 301	DEMENTIA
LUISA MARTINEZ	CAMA 1	NORMAL
ANTONI PEREZ	CAMA 2	NORMAL
PETER GARCIA	BED 1	NORMAL
LARS MALDINI	BED 2	NORMAL
PEPE GUTIERREZ (E1)	BED 1	NORMAL
MARISA (A1)	My Place	NORMAL
ANDRES (A2)	My Place	NORMAL
GONZALO MARTIN (E2)	BED 2	NORMAL

User fields will be enabled, obligatory ones appear in yellow. Also, the user's data will be shown. Fill the data and click on Save.



User Location
/ My Place / FLOOR 5 / ROOM 503 / BED 2

Username
LARS MALDINI

User Type NORMAL

Comments
The new telephone number of his family 9184234567

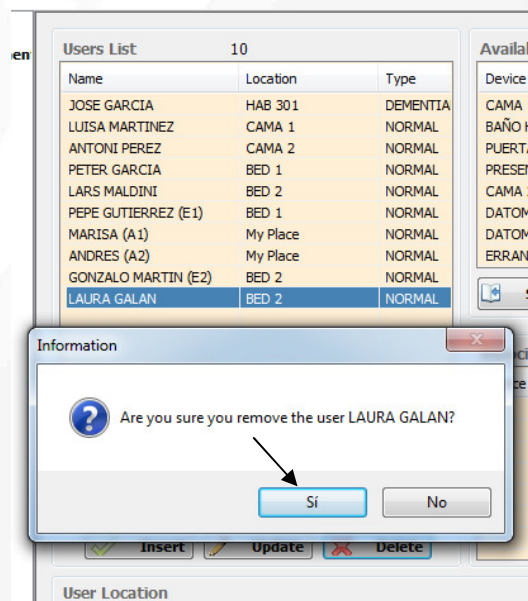
Save Cancel

8.3.3 Remove User

It lets you delete a user from the system. A user with devices assigned may not be removed. Before, you should unassign the devices. The main use of this restriction is to check that if a user leaves the residence, he must return the devices that have been assigned for his care.

If you want to remove a user, first select the desired record and then click on Remove.

A message appears warning that you are permanently removing the user, click OK and the user is deleted.



8.3.4 User Management

When clicking **User Management** on the main menu the following screen will be displayed:

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1. **Number of users**
2. **Users list List** of users, with name, location and type of user. By clicking on the header of one of its columns, it is sorted by the criterion that the column indicates.
3. **Add.** It allows you to register a new user.
4. **Edit:** (see section 8.3.2). It allows you to edit a user registered in the system.
5. Delete
6. **Location:** It shows the location to which the user has been assigned.
7. **Type of user,** may be wandering or normal. If a user is going to carry a device DATOM to know if it comes through the door, he should be classified as a wanderer.
8. **Coments,** It provides useful information to the assistant or the person who attends the alarm records. It can provide information related to any special treatment that the user may need, collects telephone contacts of relatives, friends or information about the diet.
9. **Save,** it completes the user registration process.
10. **Cancel:** It ends an operation without making any change.
11. **Number** of locations.
12. **Expand all:** It displays the tree with the locations to which the user can be assigned.
13. **Colapse all,** it collapses the tree.
14. **Location list,** it shows the location tree of the installation.
15. **of devices** registered in the system.
16. **Devices list,** it shows a devices list, displaying its type, description and location. When clicking on the header of one of the columns it is sorted by the criterion indicated in the column.
17. **Show All:** shows all the devices. When clicking on a user's list, only those devices that have not been assigned will be shown.
18. **Assign:** The selected device is added to the list of devices assigned to the user. A device assigned to a user cannot be assigned to another.
19. **Deallocate:** It deallocates a device and returns it to the set of free devices.



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20. **Number of associated devices:** It shows the number of devices that currently belong exclusively to that user.

21. **List of associated devices:** It displays a list of devices that only apply to the selected user.

22. Close

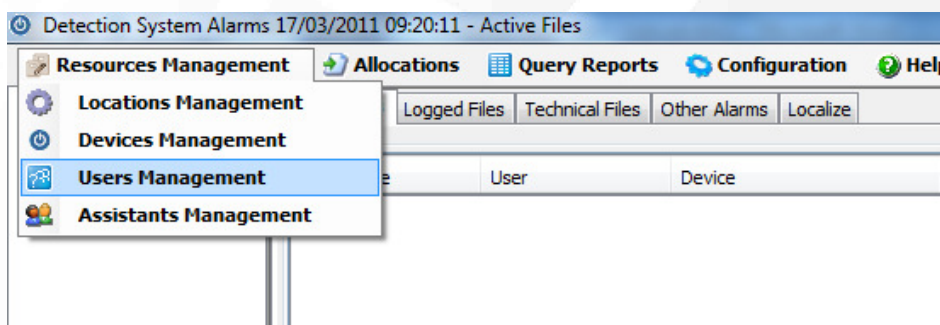
The screenshot displays the NEAT software interface with the following components and numbered callouts:

- Users List (9):** A table with columns Name, Location, and Type. Callout 1 points to the 'Type' column.
- Available Devices List (13):** A table with columns Device, Device Type, Description, and Location. Callout 15 points to the 'Device Type' column.
- Associated Devices List (1):** A table with columns Device, Device Type, Description, and Location. Callout 20 points to the 'Device Type' column.
- User Location:** A dropdown menu showing 'My Place' (callout 6).
- Username:** A text field containing 'MARISA (A1)' (callout 7).
- User Type:** A dropdown menu showing 'NORMAL' (callout 7).
- Comments:** A text area (callout 8).
- Locations (44):** A list of locations, including 'My Place' (callout 11).
- Buttons:** 'Insert', 'Update', 'Delete', 'Show All', 'Assign', 'Unassign', 'Save', 'Cancel', and 'Close' buttons are visible.



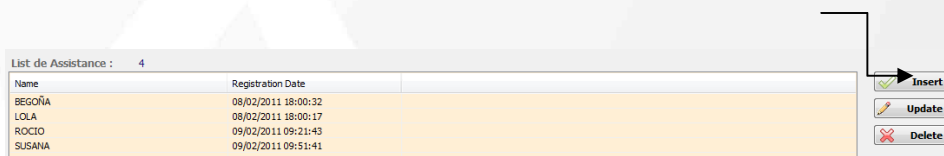
8.4 Assistants

Add Assistant: To register an assistant (worker) access the following section:

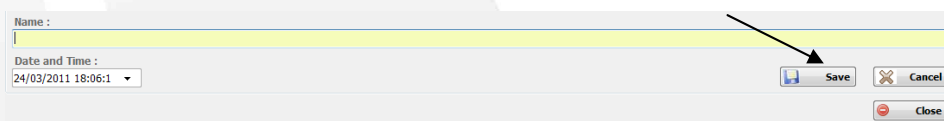


If you want to add an assistant, first click on the **Insert button**.

It is very important to complete the name and user type. A location will never be assigned to an assistant.



The Assistant fields will be enabled; the obligatory ones will appear in yellow. Lastly click on **Save**. By default an assistant is registered with the current date as registration date. If you want to set the date on which the assistant started working, you should select it.



8.4.1 Edit Assistant



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If you want to modify an assistant, first select the desired record and then click on **Edit**.

Name	Registration Date
BEGOÑA	08/02/2011 18:00:32
LOLA	08/02/2011 18:00:17
ROCIO	09/02/2011 09:21:43
SUSANA	09/02/2011 09:51:41

Buttons: Insert, Update, Delete

The assistant fields will be enabled; obligatory ones will be colored in yellow. Change the desired values and lastly click on **Save**.

Name :
ROCIO FERNANDEZ

Date and Time :
09/02/2011 09:21:4

Buttons: Save, Cancel, Close

8.4.2 Remove Assistant

If you want to remove an assistant, first select the desired record and then click on **Delete**.

Name	Registration Date
BEGOÑA	08/02/2011 18:00:32
LOLA	08/02/2011 18:00:17
ROCIO	09/02/2011 09:21:43
SUSANA	09/02/2011 09:51:41

Buttons: Insert, Update, Delete

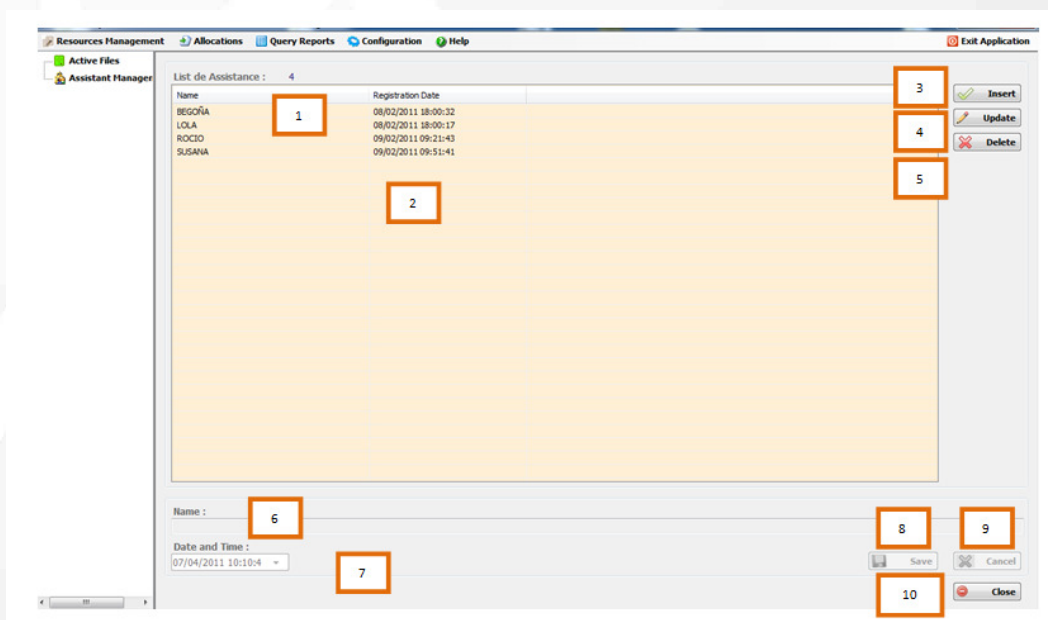
An assistant who has an assigned TREX cannot be removed.



8.4.3 Assistant Management

By clicking *Assistant Management* on the main menu the following screen will be displayed:

1. Number of assistants
2. Assistants list
3. Add
4. Edit
5. Remove
6. Name
7. Date and time
8. Save
9. Cancel
10. Close

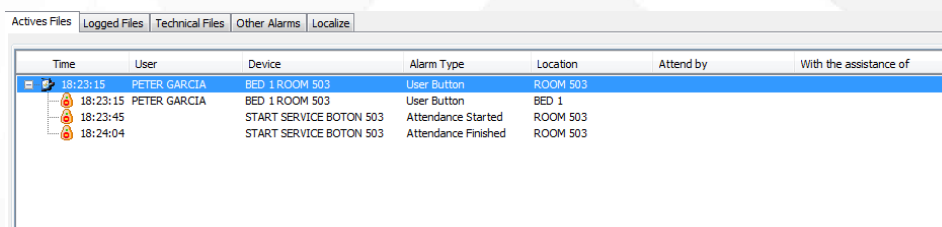


9. Management area

9.1 Records and alarms

Once the system is configured and the whole structure of data relating to locations, devices, users and assistants has been entered, you can start working with DTEC ALARM system.

Each time you press an alarm, a record will be generated. This can be viewed initially in the alarm queue section.



Time	User	Device	Alarm Type	Location	Attend by	With the assistance of
18:23:15	PETER GARCIA	BED 1 ROOM 503	User Button	ROOM 503		
18:23:15	PETER GARCIA	BED 1 ROOM 503	User Button	BED 1		
18:23:45		START SERVICE BOTON 503	Attendance Started	ROOM 503		
18:24:04		START SERVICE BOTON 503	Attendance Finished	ROOM 503		

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

One record groups the alarms using these priorities:

- By user: If an alarm is triggered by a device or devices which are assigned to a user, every alarm sent by this user will be grouped in one record. (Within a period of time previously set in the configuration).
- By location: Every alarm triggered by devices assigned to a location or to a set of locations will be grouped in one record. (Within a period of time previously set in the configuration).
- By device: One device which has not been assigned to a user or assigned to a location will create a new record. All alarms triggered by this device will be grouped in the same record. The TREX alarms, which accept the assisting to this alarm, will only appear. (Within a period of time previously set in the configuration).

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Thus, a record has the related alarms in the same context of time and/or place, allowing to manage a set of related events physically and logically.

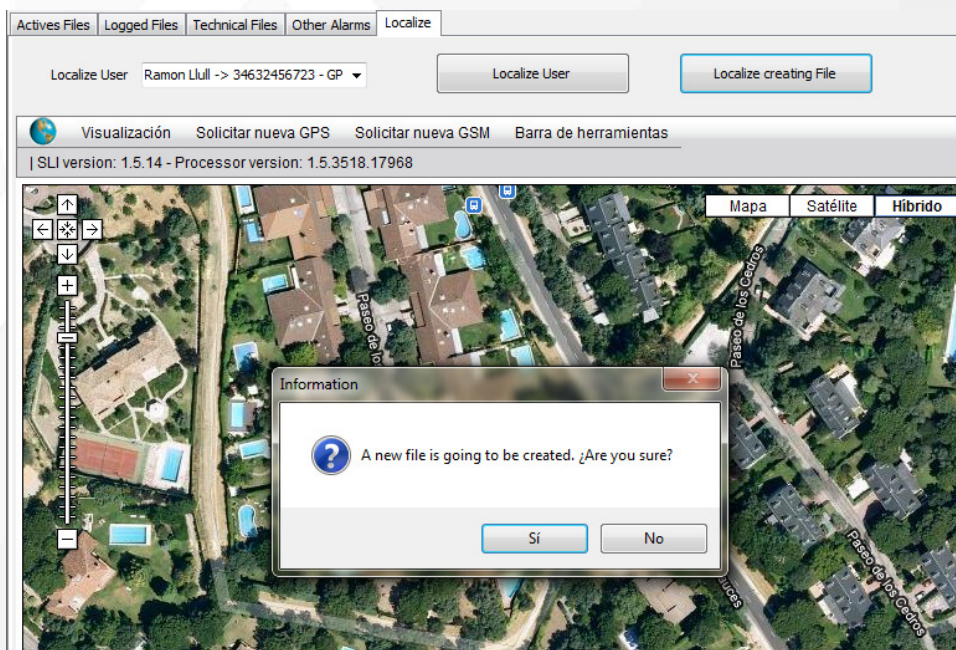
9.2 Localization GSM/GPS

It allows locating a user who carries a tracking device. The search is carried out with the SLI platform (System of Integrated Localization) NEAT.

In the option **Locate User** all the devices known by the system are shown. It will also appear the user's name if the device has been assigned to a user. It is important to make the link between the device and the user in the **User Management** screen. If a device is lent to a user without making the link, you will not be able to know to whom has been lent.

: The tracking system has two options:

- Displays on the map the last known position of a device, showing the date and time of that localization.
- Locate with alarm: It performs a geographic search of the device and creates a record in the queue of active records, which allows you to register that a search was made. The following message will be displayed:





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It generates a new record:

Time	User	Device	Alarm Type	Location
13:04:55		GPS Device	Mobile Device	Residence
13:04:55		GPS Device	Mobile Device	Residence

To search for a device you have to:

1. Select from the list of available devices the one you want to locate.
2. Press one of the two options to locate: creating a record or not creating a record.



9.3 Assignment of Trex to assistants

9.3.1 Data:

When clicking the **Assignment of Trex to assistants** the following screen will be shown:

1. Number of assistants
2. Assistants list
3. Number of Trex
4. Trex list
5. Assistant´s name
6. Device Serial number
7. Search
8. Date and time
9. Comments
10. Number of current assignments
11. Current assignments list
12. Assign
13. Return
14. Assignments list number
15. Assignments list
16. Close



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The screenshot shows the 'Assignments' window in the software. It includes a menu bar with 'Resources Management', 'Allocations', 'Queries Reports', 'Configuration', and 'Help'. The main area is divided into several sections: 'Assistance' (listing BEGOÑA, LOLA, ROCIO, SUSANA), 'Device Trex' (listing TREX 3066, TREX 3489, TREX 4088, TREX 4095, TREX PANICO 0074/1844, TREX PANICO 2992/1848), 'Name Assistance' and 'Serial Number Device' input fields with a 'Search' button, 'Date and Time' and 'Comments' fields, 'Current Assignments' table, 'Update Comments' button, and 'List de Assignments' table. Numbered callouts (1-16) highlight specific elements: 1 (Assistance list), 2 (Assistance list), 3 (Device Trex list), 4 (Device Trex list), 5 (Name Assistance field), 6 (Serial Number Device field), 7 (Search button), 8 (Date and Time field), 9 (Comments field), 10 (Comments field), 11 (Current Assignments table), 12 (Assign button), 13 (Return button), 14 (Update Comments button), 15 (List de Assignments table), and 16 (Close button).

9.3.2 To assign a Trex to an assistant

If you want to assign a Trex to an assistant, first select the desired assistant from the record list and then select one or several devices (use Control key to select more than one device). If necessary, also fill the date and the observations. Lastly click on **Assign**. The observations at the time of the assignment may serve to indicate something unusual, for example that the assistant who performs the duties that day is a substitute for another or that the work shift is starting in a holiday.

This screenshot is a zoomed-in view of the 'Assignments' window. The 'Assistance' list has 'BEGOÑA' selected. The 'Device Trex' list has 'TREX 3066', 'TREX 3489', 'TREX 4088', and 'TREX 4095' selected. The 'Current Assignments' table shows the following data:

Assistance	Device	Date of Allotment	Comments
LOLA	TREX 4088	16/03/2011 19:28:46	
SUSANA	TREX 4095	16/03/2011 19:28:56	
ROCIO	TREX 3489	30/03/2011 12:50:52	

The 'Assign' button is highlighted with a blue arrow pointing to it from the right. The 'Return' button is also visible below it.





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In this manner, the register, which has just been assigned, will be loaded in **Current Assignments**.

Asignaciones Actuales : 3

Auxiliar	Dispositivo	Fecha de Asignación	Observaciones
ANGELICA GAMARRA SUI	DISPONISITO 13	20/04/2009 04:56:11 p.m.	
ANA RAMIRES LLOSA	DISPONISITO 11	27/04/2009 10:18:18 a.m.	Se asignará dos dispos
ANA RAMIRES LLOSA	DISPONISITO 17	27/04/2009 10:18:18 a.m.	Se asignará dos dispos

Buttons: + Asignar, Actualizar Observación, Devolución

9.3.3 Update Comments

If you want to update the observations of an assignment, first select the desired record, modify the observations and click on **Update comments**.

Assistance : 4 Device Trex : 2

BEGOÑA LOLA ROCIO **SUSANA** TREX 3066 TREX 3489 TREX 4088 TREX 4095
TREX PANICO 0074/1844 TREX PANICO 2992/1848

Name Assistance : Serial Number Device : Search

Date and Time : Comments :

13/04/2011 11:50:1

Current Assignments : 4

Assistance	Device	Date of Allotment	Comments
LOLA	TREX 4088	16/03/2011 19:28:46	
SUSANA	TREX 4095	16/03/2011 19:28:56	
ROCIO	TREX 3489	30/03/2011 12:50:52	
BEGOÑA	TREX 3066	07/04/2011 10:33:02	

Buttons: Assign, Return, Update Comments





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9.3.4 Return Trex

If you want to return a Trex, first select the desired record on the current assignment list and click on **Return**.

Assistance	Device	Date of Allotment	Comments
LOLA	TREX 4088	16/03/2011 19:28:46	
SUSANA	TREX 4095	16/03/2011 19:28:56	
ROCIO	TREX 3489	30/03/2011 12:50:52	
BEGOÑA	TREX 3066	07/04/2011 10:16:24	Finally we decide to change for other Trex unit.

In this manner, the Trex, which has just been returned, will be loaded in Trex Assignment list.

Assistance	Device	Date of Allotment	Comments
LOLA	TREX 4088	16/03/2011 19:28:46	
SUSANA	TREX 4095	16/03/2011 19:28:56	
ROCIO	TREX 3489	30/03/2011 12:50:52	

Assistance	Device	Date of Allotment	Return Date
BEGOÑA	TREX 3066	07/04/2011 10:16:24	07/04/2011 10:30:32
ROCIO	TREX 3489	29/03/2011 12:43:55	30/03/2011 12:50:36
ROCIO	TREX 3489	23/03/2011 10:20:04	30/03/2011 12:50:36
BEGOÑA	TREX 3066	23/03/2011 10:19:49	07/04/2011 10:30:32

9.3.5 Search Assistant or Device

If you want to search a user or an assistant, first fill the search filter on the desired field (assistant and/or serial number) and click on **Search**.

Assistance : 4

Device Trex : 3

BEGOÑA LOLA ROCIO SUSANA

TREX 3066 TREX 3489 TREX 4088 TREX 4095
TREX PANICO 0074/1844 TREX PANICO 2992/1848

Name Assistance : BEGOÑA

Serial Number Device : 3489

Search





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This is the way you will select the assistants and/or devices with search filter:

Assistance : 4 Device Trex : 3

BEGONA	LOLA	ROCIO	SUSANA
--------	------	-------	--------

TREX 3066	TREX 3489	TREX 4088	TREX 4095
TREX PANICO 0074/1844	TREX PANICO 2992/1848		

Name Assistance : Serial Number Device :

9.3.6 View comments of Assignment list

If you want to view the observations of a current Trex assignment, first focus on the Assignment list, the records in green are the ones which have notes. Double click them to view the comments.

Assistance : 4 Device Trex : 3

BEGONA	LOLA	ROCIO	SUSANA
--------	------	-------	--------

TREX 3066	TREX 3489	TREX 4088	TREX 4095
TREX PANICO 0074/1844	TREX PANICO 2992/1848		

Name Assistance : Serial Number Device :

Date and Time : 07/04/2011 10:33:0 Comments :

Current Assignments : 3

Assistance	Device
LOLA	TREX 4088
SUSANA	TREX 4095
ROCIO	TREX 3489

List de Assignments : 10

Assistance	Device	Date of Allotment	Return Date
BEGONA	TREX 3066	07/04/2011 10:16:24	07/04/2011 10:30:32
ROCIO	TREX 3489	29/03/2011 12:43:55	30/03/2011 12:50:36
ROCIO	TREX 3489	23/03/2011 10:20:04	30/03/2011 12:50:36
BEGONA	TREX 3066	23/03/2011 10:19:49	07/04/2011 10:30:32

Information

Are you sure to assign Assistant Trex?



10. Alarms area

When you start the program, the main screen is shown. It is composed by four tabs where you can view the alarms. This screen always remains open and it will be updated by any alarm which arrives to the system. Also, it has the functionality of flashing and sounding when a new alarm is received.

The tabs are:

1. Current reports
2. Historical records
3. Technical alarms
4. Other alarms
5. Localization

10.1 Current records

Upon entering the system, it will be shown the Alarm Detection System screen with the Current Records tab. You will see the following information:

1. Records tree: It shows the record data and alarms, which belong to it.
2. User name
3. User location
4. Name of User Device
5. User device radio code 1
6. User device radio code 2
7. User device serial number
8. User device location
9. User device description



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10. Assistant name
11. Assistant registration date
12. Assistant Trex name
13. Assistant Trex radio code 1
14. Assistant Trex radio code 2
15. Assistant Trex data
16. Help assistant name
17. Help assistant registration date
18. Help assistant Trex name
19. Assistant Trex radio code 1
20. Help assistant Trex radio code 2
21. Help assistant Trex description
22. Activate sound
23. Observations
24. Save observations
25. Users list and its location for the selected record
26. Activation/deactivation of the siren
27. Manual records closing: when closing it saves the observation that was edited at the moment. In this case to save the observation, there is no need to click on the "Save Observations" button. The record checked disappears from the records list and becomes part of the Historical Records.
28. Manual closing of all records.
29. Zoom View
30. Number of records and active alarms





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The screenshot displays the main interface of the NEAT application. At the top, there are tabs for 'Actives Files', 'Logged Files', 'Technical Files', 'Other Alarms', and 'Localize'. Below this is a table of active alarms with columns for Time, User, Device, Alarm Type, Location, Attend by, and With the assistance of. A red box labeled '1' highlights the first row of the table. Below the table, there are buttons for 'Manual Close', 'Close All Files', and 'Zoom'. The lower half of the screen is divided into several sections: 'Users / Locations' with a list of users and their locations; 'Device User Information' with fields for Name, Radio Code 1, Radio Code 2, Serial Number, and Description; 'Assistance Info' with fields for Name, Date, and Assistance Name; and 'Assistance Info Help' with fields for Name, Date, Radio Code 1, and Radio Code 2. At the bottom, there are 'File Comments' and 'Files' sections, along with a 'Save Observation' button and a 'Sound' checkbox. Numerous orange boxes with numbers (2-30) are overlaid on the interface to indicate specific UI elements.

This is the main screen of the application, where you can supervise in real time all the care activity of the residence.

10.1.1 Records list

It displays each record in a hierarchical way with their corresponding alarms. The record (1) appears with the time when the first alarm came in that record. If you place the mouse cursor over the date, the date and record number will be displayed. When you click on the record, the information displayed in the lower half of the screen belongs to the alarm which opened the record. Its location and associated devices that correspond to it.

If you place the mouse on the alarm time, not on the record, it appears a number which is the alarm identifier.



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Each time you click on a record or an alarm, data will be displayed on the bottom associated with devices and users that have intervened in the record.

Each record will remain indefinitely in the records queue, till you decide to close it manually or the record closes automatically after an elapsed time.

A record can be closed automatically, if desired, according to the alarm which opened that record and its state.

10.1.2 Alarm Types

These are the alarm types which characterize the system in a standard way:

- User button
- User alarm from trigger
- User alarm from button
- Reminder alarm
- Passive alarm
- Door alarm
- Bed alarm
- Carpet alarm
- Mains failure alarm
- Mains OK indication
- Accumulator alarm
- Battery alarm
- Smoke detector alarm
- Assault alarm
- Presence indication
- Ready indication
- Automatic ready indication
- Action indication
- Test alarm
- Emergency alarm
- Assistance alarm
- User defined
- User alarm from trigger,
battery low
- Radio interference
- Log call
- Radio out of range
- Radio within range
- Radio test alarm
- Temper alarm
- Inactivity
- Accumulator fully charged
- Home indication
- Away indication
- Burglar alarm
- Position information
- Maneuver
- Alarm accepted
- Located user button
- Button
- Demented leaving the
premises
- Mobile Device
- Personnel leaving location
- Start of assistance
- End of assistance
- Acoustic alarm stop

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10.1.3 Record status

The states in which a record may be are:

1. Not attended
2. Attended
3. Solicitada Assistance Requested
4. Assisted Assistant
5. Technical
6. Completed attention

These states mean:

1. Not attended: Record opened by an alarm, caused by a user who has not been attended by any assistant.
2. Attended: The user alarm is being served by an assistant. An assistant has taken responsibility of this record.
3. Assistance requested: When an assistant is attending a patient, he may have a problem or need help from a partner, so he generates from the TRES an alarm to request assistance, this alarm will be received by other assistants in their TRES.
4. Assisted Assistant: It is the confirmation of an assistant to help a partner who needs help. It is included in the assistant record because he will also take part in resolving the issue.
5. Technical: It goes to the queue of technical records; it does not appear in the alarm queue user. These records are produced by types of alarms configured as technical.
6. Completed Attention: It occurs when there is an event of termination of service as in the case of pressing a Wall Button meaning the end of the assistance. The assistant indicates that this record should not admit more alarms and that the case, where he was on, is closed.

10.1.4 Automatic closing of a record

Record lifetime Control.

It can be configured for each alarm, and depending on the state of the record, the time that this record may remain open. Time after which, it will be closed automatically.

For this there is an internal table for it in which it is configured how long a record will accept alarms and for how long it may appear in the alarm queue before being permanently closed and going to historical records.

So, there are three states in closing a record:

- It adds all the alarms that it receives for that user or location.
- Closed, in alarm queue: the record will no longer accept alarms since it has been closed but it still appears in the queue in order to allow the assistant to add comments. This closing is always automatic.
- Closed: the file no longer appears in the alarm queue, it appears in the alarms log and it does not accept any changes.

When a record is closed automatically, it is removed from the queue, becoming part of the list of historical records, but it will include a note in observations, indicating that the record was closed without being supervised automatically.

When a record is closed manually, the observations indicate that the record was closed under supervision.

By default, the records are not closed automatically, so the assistant may supervise all the care activity.

The automatic record's closing is configured through a table that should be modified by the installer.



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In the list of users and locations, the users involved in a record are displayed as well as the location assigned to them. Since users can belong to different locations of the same group, this listing allows differentiating where the alarm has occurred or if a particular user has produced it. When the location is shared by several users, any device assigned to that location can be triggered by any of its users. In this case, the list of users, which can be involved in the alarm generated, will appear. If the user is highlighted in another color in the list, that user is the one who has produced the alarm because the device is operated exclusively for that user, despite being in a shared location.

How to know the location of a wandering:

If a wandering person who carries a Datom walks out by a controlled door, the door location can be consulted in the wandering record alarm.

10.2 Historical records:

When you click on Records log tab the following data will be shown:

1. Records list
2. Records alarm list
3. User name
4. User location
5. User description
6. User device name
7. User device radio code 1
8. User device radio code 2
9. User device serial number
10. User device location
11. User device description
12. Assistant name
13. Assistant registration date
14. Assistant Trex name
15. Assistant Trex radio code 1
16. Assistant Trex radio code 2
17. Help assistant name
18. Help assistant registration date
19. Help assistant Trex name





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20. Help Assistant Trex radio code 1
21. Help Assistant Trex radio code 2
22. Help assistant Trex description
23. Comments

The screenshot displays the NEAT software interface. At the top, there are navigation tabs: Resources Management, Allocations, Query Reports, Configuration, and Help. Below these, there are sub-tabs: Active Files, Assigned to Trex A, and Users Management. The main window is divided into several sections:

- Historical Files List:** A table with columns: File #, Description, Open Date, Close Date, Close Description, User, Location Name, and Remark. It contains five rows of data.
- Alarms List:** A table with columns: Time of receipt, Alarma Description, Location Name, Recognition Time, User Timeout, Attendance Time, Device 1 Name, and Device 2 Name. It contains three rows of data.
- User Information:** A form showing details for user PETER GARCIA, including location, description, and user device.
- Assistance Info:** A form showing details for assistance LOLA, including date, name, and radio codes.
- File Comments:** A text area containing the comment "/Supervised".

Numbered callouts (1-22) are placed over the interface to highlight specific elements: 1 points to the Historical Files List; 2 points to the Alarms List; 3 points to the User Information section; 4 points to the Location field; 5 points to the Description field; 6 points to the User Device section; 7 points to the Radio Code 1 field; 8 points to the Radio Code 2 field; 9 points to the Serial Number field; 10 points to the Location field; 11 points to the Description field; 12 points to the Assistance Info Name field; 13 points to the Assistance Info Date field; 14 points to the Assistance Info Name field; 15 points to the Assistance Info Radio Code 1 field; 16 points to the Assistance Info Radio Code 2 field; 17 points to the Assistance Info Help Name field; 18 points to the Assistance Info Help Date field; 19 points to the Assistance Info Help Name field; 20 points to the Assistance Info Help Radio Code 1 field; 21 points to the Assistance Info Help Radio Code 2 field; 22 points to the File Comments field.

In the alarms list you can see the alarms of each record by clicking on any of the records. In addition, it shows the data entities associated with that record at the bottom and the comments made about that specific record.

This list shows the user data, the device and location for each alarm. Also, it shows the assistance timing.

10.3 Metrics of quality care

For each alarm user, or in other words, for each alarm produced by a sensor or by a request for assistance or service requested by a user, the system calculates the following times:

- Recognition time of the assistant: Elapsed time from the user's assistance request until the assistant accepts such assistance in





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his TREX. This metric can help to know the response time of each assistant.

- User timeout: It is the time that the user waits from asking for assistance until the assistant is physically present in the room. This measure can be used to measure the level of quality of care of a residence, which is affected by the number of assistants working in one shift, the number of incidents generated by users, and the size of the facilities, because the assistant must move from one place to another to attend a user.
- Care time: This measure is used to track the quality of care in a residence, since it measures the time spent by an assistant in caring for each user since he arrives to the room to assist the user until he leaves the room.

The screenshot displays a software interface with several sections:

- Historical Files List:** A table with columns: File #, Description, Open Date, Close Date, Close Description, User, Location Name, Remark. It shows several entries for assistants like PETER GARCIA and JOSE GARCIA.
- Alarms List:** A table with columns: Time of receipt, Alarma Description, Location Name, Recognition Time, User Timeout, Attendance Time, Device 1 Name, Device 2 Name. It lists various alarm events like 'User Button', 'Alarm Accepted', and 'Attendance Started'.
- User Information:** Fields for Name (PETER GARCIA), Location (My Place\FLOOR 5\ROOM 503\BED 1), and Description.
- Assistance Info:** Fields for Name (LOLA), Date (08/02/2011 18:00:1), and Assistance TREX (Radio Code 1: TRES 4088, Name: 5088, Radio Code 2: 4088).
- Assistance Info Help:** Fields for Name, Date, Assistance TREX (Name, Radio Code 1, Radio Code 2).
- File Comments:** A text area containing '/Supervised'.

To establish a control of quality of care it is necessary that the facilities are equipped with control devices of presence or wall buttons which should be several models.

It is important that the assistants who work in the system are aware that they must use these devices. The system also collects information about:

- Users Not Attended





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- Care assistants who accept an alarm and do not arrive to provide the service.

The following example shows the metrics of quality of care for the user alarms of a record. In the list of records log a particular record is selected:

File #	Description	Open Date	Close Date	Close Description	User	Location Name	Remark
237	Assistant finished	07/04/2011 10:48:51	07/04/2011 10:52:08	MANUAL	PETER GARCIA	ROOM 503	/Superviso
238	Assistant finished	07/04/2011 10:44:26	07/04/2011 10:47:11	MANUAL		ROOM 503	/Superviso
237	Attended	28/03/2011 18:21:43	28/03/2011 18:22:12	MANUAL	JOSE GARCIA	HAB 308	/Superviso
236	Assistant helped	28/03/2011 18:20:55	28/03/2011 18:21:41	MANUAL		HAB 308	/Superviso
235	Unattended	28/03/2011 18:10:00	28/03/2011 18:10:26	MANUAL	MARISA (A1)	COMEDOR 1	/Superviso

At the bottom you can see the red flags that make up that record:

Time of receipt	Alarma Description	Location Name	Recognition Time	User Timeout	Attendance Time	Device 1 Name	Device 2 Name
07/04/2011 10:48:51	User Button	BED 1	4	10	9	BED 1 ROOM 503	
07/04/2011 10:48:55	Alarm Accepted					TREX 4088	BED 1 ROOM 503
07/04/2011 10:49:01	Attendance Started	ROOM 503				START SERVICE BOTON 503	
07/04/2011 10:49:10	Attendance Finished	ROOM 503				START SERVICE BOTON 503	

We can see that there are two user requests for assistance. And the time that each of them has taken, showing their value in seconds. (In the example, this data has been generated by a simulator and may not have to do with real care values).

In the bottom of the screen you can see for each record and alarm, the information about the user and assistants who have intervened in that action. Also, you can see the observations that the assistant left for that specific case.

10.4 Technical Alarms

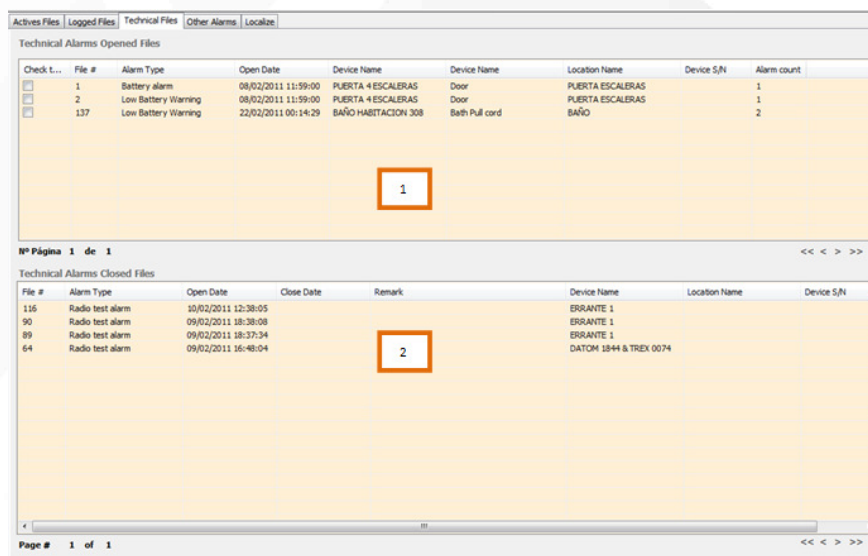
When you click on **Historical records** tab the following data will be shown:





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1. **.Open Technical Alarms List:** List of open technical alarms, displays all the cases of devices that have launched a technical alarm that requires monitoring. It shows the type of alarm, the date on which it occurred, the device that launched its location, the serial number that must be taken into account to inform the repair shop if it is necessary and a counter called Alarms, which brings together in a single record all such alarms sent by one device. This counter prevents that one same device generates alarms in an uncontrolled manner in case of failure.
2. List of closed technical alarms: It shows a list of all records that have been monitored, showing also the comments of the technician who has treated each case.



All technical alarms received in the system, except Test alarms that generate a closed record, create a technical record in the list of open technical records. This record remains in the queue at the top of the screen called **List of Open Technical Alarms**. This list shows the pending alarms, those ones that have not been supervised yet.

When the problem, that generated the technical alarm, is corrected, you can close that record of technical alarm; in that moment you will be





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prompted to enter an observation, talking about the cause of the problem and also about the technician who repaired it.

The screenshot shows a software window with a menu bar (Active Files, Logged Files, Technical Files, Other Alarms, Localize) and two main tables. The top table, 'Technical Alarms Opened Files', has columns: Check t..., File #, Alarm Type, Open Date, Device Name, Device Name, Location Name, Device S/N, and Alarm count. It contains three rows of data. A dialog box is overlaid on the table, asking 'Do you want to close this technical file?' with a 'Remark' field containing 'BATTERY CHANGED' and 'OK' and 'Cancel' buttons. The bottom table, 'Technical Alarms Closed Files', has columns: File #, Alarm Type, Open Date, Close Date, Remark, Device Name, Location Name, and Device S/N. It contains four rows of data. The status bar at the bottom shows 'Page # 1 of 1'.

In the bottom of the screen it is displayed the List of Closed Technical Alarms showing the entire Log of technical alarms produced at the facility.

To close a record, just check it in the list of open technical records. When closing it, you will be prompted to enter some observations that will be registered.

This screenshot is similar to the previous one but shows the 'Technical Alarms Closed Files' table with an additional row. The new row has File # 1, Alarm Type Battery alarm, Open Date 08/02/2011 11:59:00, Close Date 07/04/2011 15:12:19, Remark BATTERY CHANGED, Device Name PUERTA 4 ESCALERAS, Location Name PUERTA ESCALERAS, and Device S/N. The dialog box is no longer present. The status bar at the bottom shows 'Page # 1 of 1'.





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10.5 Other Alarms

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

When you click on Other Alarms tab the following data will be shown:

Date Received	Capture	Alarm Type	Device 1 Name	Device 2 Name
07/04/2011 10:49:22	[3]AA79FFFF0200FF	User Button	AA75	85
07/04/2011 10:49:19	[3]7579FFFF031CFF0004	Radio test alarm	7574	0004
07/04/2011 10:49:13	[3]0BA4FFFF020B00	Battery alarm	0BA4	69
07/04/2011 10:48:50	[3]AA78FFFF0200FF	User Button	AA78	B7
07/04/2011 10:48:38	[3]73C1FFFF031CFF0009	Radio test alarm	73C1	0009
07/04/2011 10:48:21	[3]A9E8FFFF0200FF	User Button	A9E5	99
07/04/2011 10:45:00	[3]A9B8FFFF0200FF	User Button	A9B8	A1
07/04/2011 10:44:52	[3]6262FFFF031CFF0003	Radio test alarm	6262	0003
07/04/2011 10:44:50	[3]DA59FFFF0200FF	User Button	DA59	D5
07/04/2011 10:44:35	[3]A868FFFF0200FF	User Button	A868	ID
07/04/2011 10:44:25	[3]4A50FFFF0200FF	User Button	4A50	53
07/04/2011 10:44:17	[3]A7C3FFFF0200FF	User Button	A7C3	31
07/04/2011 10:44:07	[3]205CFFFF0200FF	User Button	205C	2B
07/04/2011 10:43:59	[3]205CFFFF0200FF	User Button	205C	2B
07/04/2011 10:43:59	[3]AC7DFFFF0200FF	User Button	AC7D	A3
28/03/2011 18:26:49	[3]46E0FFFF031CFF0005	Radio test alarm	6E0F	0005
28/03/2011 18:26:21	[3]12C2FFFF020B00	Battery alarm	12C2	F9
28/03/2011 18:26:10	[3]9E59FFFF031CFF000E	Radio test alarm	9E59	000E
28/03/2011 18:25:40	[3]4612FFFF031CFF0005	Radio test alarm	6129	0005
28/03/2011 18:24:21	[3]46D3BFFFF031CFF0004	Radio test alarm	6D3B	0004
28/03/2011 18:23:45	[3]40402FFFF0300FF0158	User Button	0402	JARDIN [0158]
28/03/2011 18:23:44	[3]A84AFFFF031CFF0005	Radio test alarm	A84A	0005
28/03/2011 18:23:01	[3]6F8EFFFF031CFF0004	Radio test alarm	6F8E	0004
28/03/2011 18:22:31	[3]6309FFFF031CFF0003	Radio test alarm	6305	0003
28/03/2011 18:22:10	[3]7283FFFF031CFF0004	Radio test alarm	7283	0004
28/03/2011 18:21:33	[3]6259FFFF031CFF0003	Radio test alarm	6259	0003
28/03/2011 18:21:01	[3]0415FFFF0300FF01A9	User Button	0415	ZONA JARDIN [01A9]
28/03/2011 18:20:02	[3]42B77FFFF031CFF0004	Radio test alarm	2B77	0004
28/03/2011 18:20:01	[3]40402FFFF0300FF0158	User Button	0402	JARDIN [0158]
28/03/2011 18:19:54	[3]6F8EFFFF031CFF0004	Radio test alarm	6F8E	0004
28/03/2011 18:19:49	[3]651AFFFF031CFF0004	Radio test alarm	651A	0004
28/03/2011 18:18:23	[3]46B2FFFF031CFF0007	Radio test alarm	46B2	0007
28/03/2011 18:18:21	[3]4629EFFFF031CFF0003	Radio test alarm	629E	0003
28/03/2011 18:18:16	[3]46B7C7E8E8031CFF0003	Radio test alarm	6B7C	0003

The alarms that the system is unable to treat are listed here:

- Alarms that the system could not interpret, for example, alarms from a new device that the current version cannot recognize.
- Alarms from devices that are not registered in the system. It can help to identify a device that you forgot to register in the system.
- Alarms with errors, can help to identify a device malfunction.

The list shows the following columns:

- Date and time of receipt of the event.
- Data summary received at the event.
- Alarm type, or what has been interpreted. If data has not arrived correctly, the type of alarm can be misunderstood.
- Name of device that caused the event or, if the device is not registered in the application, the radio code.



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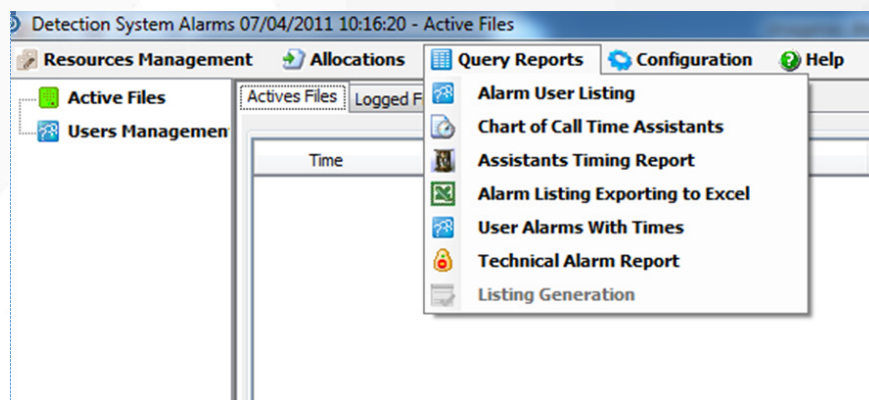
- Name of device 2: it is the device associated with that event or the radio code, as in the previous case. If there is less than 4 digits, it has no meaning.

11. Queries

The system can generate various reports. This information is displayed on the Query menu option.

The available options are:

1. User Listing
2. Chart of call time assistants
3. Assistants Timing report
4. Alarm Listing Exporting to Excel alarms with times
5. Technical Alarms Report



11.1 Alarm User Listing

If you click on this option, it is possible to view a list of users, the number of alarms generated and the user's location.



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User Alarms Report

Filter to

User Alarms List

User	Alarms	User Location
LUISA FERNANDEZ	81	SALIDA PRINCIPAL
LUISA FERNANDEZ	81	ZONA OFICINA 3
MARIA MARTINEZ	31	CAMA 2
ROSA GARCIA	20	CAMA 1
PETER GARCIA	14	BED 1
LARS MALDINI	3	BED 2

Generate Report

By clicking on the button **Generate Report** you can see the chart about the user alarms:

neat

User Alarms Report 17:06:12

User	User Location	Alarms
LUISA FERNANDEZ	SALIDA PRINCIPAL	81
LUISA FERNANDEZ	ZONA OFICINA 3	81
MARIA MARTINEZ	CAMA 2	31
ROSA GARCIA	CAMA 1	20
PETER GARCIA	BED 1	14
LARS MALDINI	BED 2	3

User	Alarms
LUISA FERNANDEZ	162
MARIA MARTINEZ	31
ROSA GARCIA	20
PETER GARCIA	14
LARS MALDINI	3





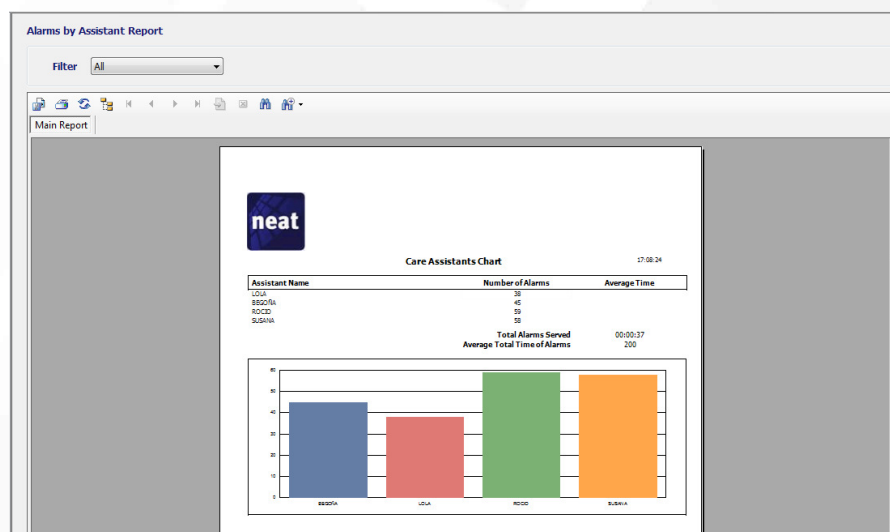
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11.2 Chart of call time assistants

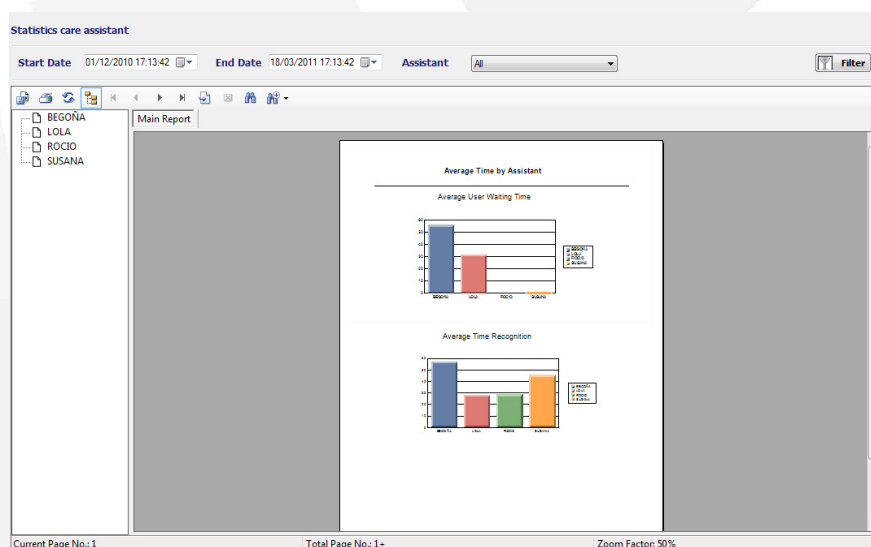
It lets you know the proportion of care or assistance to each user. To print the graph click on the **Print** button and to close click on the **Close** button, located in the bottom right of the screen.

Graph of number of alarms attended per assistant.



11.3 Assistants timing report

It lets you know graphically the average of care time per assistant.





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11.4 Alarm Listing Exporting to Excel

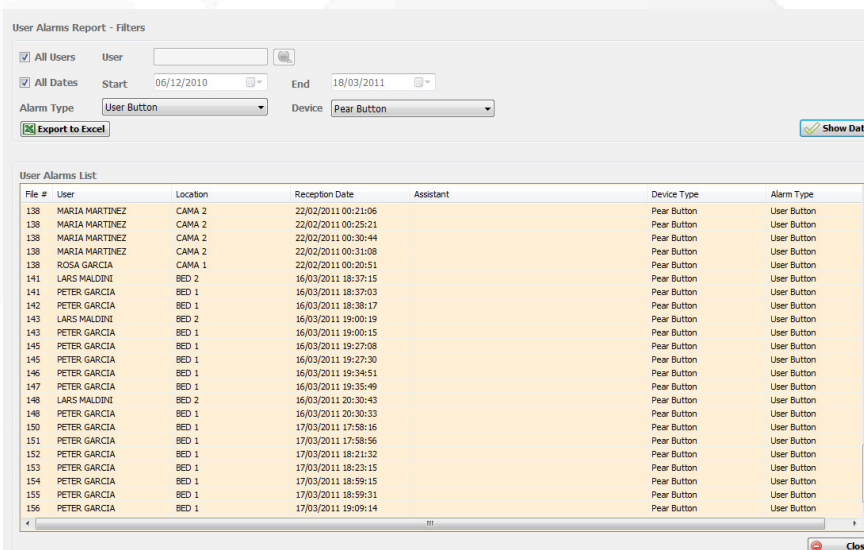
First you must select the criteria by which to conduct the searches:

- Users
- Date range
- Alarm types
- Device types

Then click the "Show Data button", it will give you a list of information which will be exported.

If you only want to consult, you may use the list that is displayed on the screen.

If you want to export the list to an Excel file, click on "Export to Excel".



By clicking the Export to Excel button, you will be requested the name and path of the Excel file that will contain the information. When you open the Excel file you will get a list like this:

File #	User	Location	Reception Date	Assistant	Device Type	Alarm Type
141	LARS MALDINI	BED 2	16/03/2011 18:37:15	ROSA	Pear Button	User Button
141	PETER GARCIA	BED 1	16/03/2011 18:37:03	ROSA	Pear Button	User Button
142	PETER GARCIA	BED 1	16/03/2011 18:38:17	BEGOÑA	Pear Button	User Button
143	LARS MALDINI	BED 2	16/03/2011 19:00:19	BEGOÑA	Pear Button	User Button
143	PETER GARCIA	BED 1	16/03/2011 19:00:15	BEGOÑA	Pear Button	User Button





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11.5 User alarms with times

It allows you to know about all assists carried out in the residence and controlling the time spent on each of the states of the alarm:

- Opening of a record
- Time elapsed between pressing and acceptance of a TRES.
- Time between acceptance and arrival in the room (with presence button)
- Time taken from arrival and exit of the room (with presence button).

For information, first you must select the criteria by which to conduct the searches: which may be by date, assistants and user.

This information can be sorted by double clicking on the corresponding header. The services performed and the times used are displayed in a very agile way; so you can keep a tight check of the quality of care time.

File #	Date	Grouping	Place	User	Device	Assistant	Recognition Time	User Timeout	Attendance Time
230	07/04/2011 10:48:51	ROOM 503	BED 1	PETER GARCIA	BED 1 ROOM 503	LOLA	00:00:04	00:00:10	00:00:09
238	07/04/2011 10:45:02	ROOM 503	BATHROOM	--	BATH ROOM 503	--	00:00:00	00:00:09	00:00:08
238	07/04/2011 10:44:54	ROOM 503	BED 1	--	BED 1 ROOM 503	--	00:00:00	00:00:17	00:00:08
238	07/04/2011 10:44:36	ROOM 503	BATHROOM	--	BATH ROOM 503	--	00:00:00	00:00:35	00:00:08
237	28/03/2011 18:21:43	HAB 308	CAMA 1	JOSE GARCIA	CAMA 1 HABITACION 308	ROCIO	00:00:04	00:00:10	00:00:09
236	28/03/2011 18:20:55	HAB 308	CAMA 2	--	CAMA 2 HABITACION 308	BEGONIA	00:00:04	00:00:07	00:00:10
234	28/03/2011 18:10:14	FLOOR 1	COMEDOR 1	PEPE GUTIERREZ (E1)	ERRANTE 5	--	00:00:00	00:00:00	00:00:00
235	28/03/2011 18:10:09	FLOOR 1	COMEDOR 1	MARISA (A1)	AXILLAR 4	--	00:00:00	00:00:00	00:00:00
234	28/03/2011 18:10:04	FLOOR 1	COMEDOR 1	PEPE GUTIERREZ (E1)	ERRANTE 5	--	00:00:00	00:00:00	00:00:00
235	28/03/2011 18:10:00	FLOOR 1	COMEDOR 1	MARISA (A1)	AXILLAR 4	--	00:00:00	00:00:00	00:00:00
234	28/03/2011 18:09:48	FLOOR 1	COMEDOR 1	PEPE GUTIERREZ (E1)	ERRANTE 5	--	00:00:00	00:00:00	00:00:00
234	28/03/2011 18:09:43	FIRST FLOOR	ZONA JARDIN	PEPE GUTIERREZ (E1)	ERRANTE 5	--	00:00:00	00:00:00	00:00:00
233	28/03/2011 18:09:29	FIRST FLOOR	ZONA JARDIN	MARISA (A1)	AXILLAR 4	--	00:00:00	00:00:00	00:00:00
233	28/03/2011 18:09:24	FLOOR 1	COMEDOR 1	MARISA (A1)	AXILLAR 4	--	00:00:00	00:00:00	00:00:00
233	28/03/2011 18:08:48	FLOOR 1	COMEDOR 1	MARISA (A1)	AXILLAR 4	--	00:00:03	00:00:00	00:00:00
232	28/03/2011 18:08:35	FIRST FLOOR	ZONA JARDIN	PEPE GUTIERREZ (E1)	ERRANTE 5	--	00:00:04	00:00:00	00:00:00
232	28/03/2011 18:08:11	FIRST FLOOR	ZONA JARDIN	PEPE GUTIERREZ (E1)	ERRANTE 5	--	00:00:02	00:00:00	00:00:00
232	28/03/2011 18:07:57	FIRST FLOOR	ZONA JARDIN	PEPE GUTIERREZ (E1)	ERRANTE 5	--	00:00:16	00:00:00	00:00:00
233	28/03/2011 18:07:56	FIRST FLOOR	ZONA JARDIN	MARISA (A1)	AXILLAR 4	--	00:00:03	00:00:00	00:00:00
232	28/03/2011 18:07:49	FIRST FLOOR	ZONA JARDIN	PEPE GUTIERREZ (E1)	ERRANTE 5	--	00:00:04	00:00:00	00:00:00
233	28/03/2011 18:07:46	FIRST FLOOR	ZONA JARDIN	MARISA (A1)	AXILLAR 4	--	00:00:13	00:00:00	00:00:00
233	28/03/2011 18:07:38	FLOOR 1	COMEDOR 1	MARISA (A1)	AXILLAR 4	--	00:00:05	00:00:00	00:00:00
232	28/03/2011 17:56:28	--	--	PEPE GUTIERREZ (E1)	ERRANTE 5	--	00:00:03	00:00:00	00:00:00
232	28/03/2011 17:56:11	--	--	PEPE GUTIERREZ (E1)	ERRANTE 5	--	00:00:08	00:00:00	00:00:00
231	28/03/2011 17:39:21	HAB 308	CAMA 2	--	CAMA 2 HABITACION 308	--	00:00:00	00:00:03	00:00:08
230	28/03/2011 17:24:06	HAB 308	CAMA 2	--	CAMA 2 HABITACION 308	--	00:00:00	00:00:03	00:00:00
229	28/03/2011 17:14:18	HAB 308	CAMA 1	JOSE GARCIA	CAMA 1 HABITACION 308	--	00:00:00	00:00:00	00:04:44
229	28/03/2011 17:13:38	HAB 308	CAMA 2	--	CAMA 2 HABITACION 308	--	00:00:00	00:00:06	00:04:44
228	24/03/2011 20:55:07	FLOOR 1	COMEDOR 1	PEPE GUTIERREZ (E1)	ERRANTE 5	--	00:00:00	00:00:00	00:00:00
228	24/03/2011 20:55:07	FLOOR 1	COMEDOR 1	MARISA (A1)	AXILLAR 4	--	00:00:00	00:00:00	00:00:00





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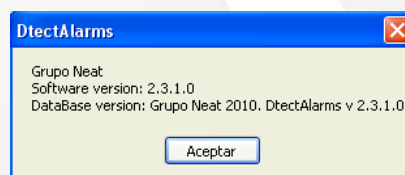
11.6 Technical Alarms Report

Automatically, all devices send alarms, which can affect their proper functioning. Such events will be reflected in this section, which must be consulted by the maintenance staff periodically to analyze and proceed according to the received event.

File #	Closed on	Opened on	Device Name	Device Type	Alarm	Location	Location Group
1	07/04/2011 15:12:19	06/02/2011 11:59:00	PUERTA 4 ESCALERAS	Door	Battery alarm	PUERTA ESCALERAS	FLOOR 4

12 Help

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

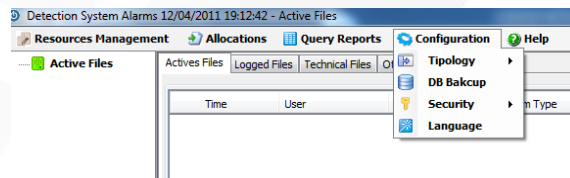


In future versions, help will be included about the application management.

Knowing the versions of the database and the application is very helpful. This can help either to correct errors or to be aware if an update is needed.



13 Advance Management

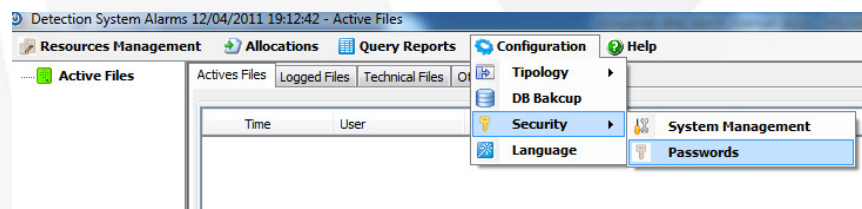


It is used to:

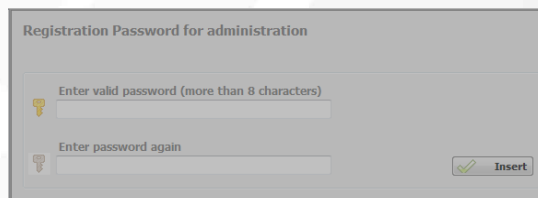
- Generate a unique password management.
- Change the existing administrator password.
- Give permission to the current session.
- Generate the database backups.
- Add new types of devices.
- Add new types of alarms.

13.1 Security

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



To generate a management password
Security Menu
Password Option



Registration Password for administration

Enter valid password (more than 8 characters)

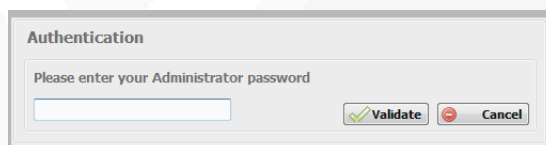
Enter password again

Insert

The password will be entered twice. If it is correct, there will be a message stating: "The password was entered successfully".

To leave the password management, you need to click on close.

If there is already a password, a window will be displayed, where you enter the password.



Authentication

Please enter your Administrator password

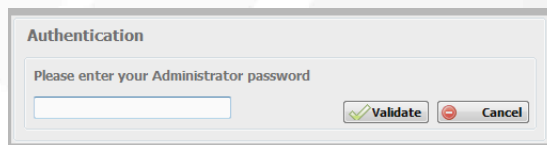
Validate Cancel

This is the case in which the password already exists and you want to change it.

Once you have created the password you will have access to these options:

- Security
 - Passwords
 - Permissions Management
 - Management Types
 - Device types
 - Tipo Alarm Types
 - Alarm Type

In any of these options, the application will request the administration password created.

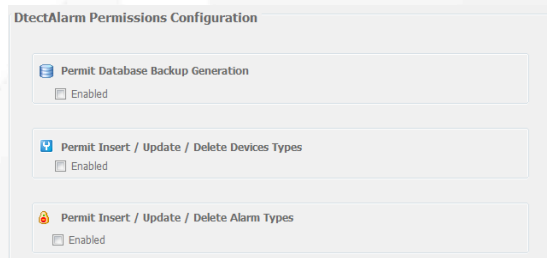


To carry out any operation, it is necessary to enable the necessary permissions. These permissions will be valid only in the current session. That is if you exit the application and log in again, the permissions are disabled.

If you want to disable the permissions for those who continue to use the application (after the maintenance performed) does not have administration permissions, there are two options:

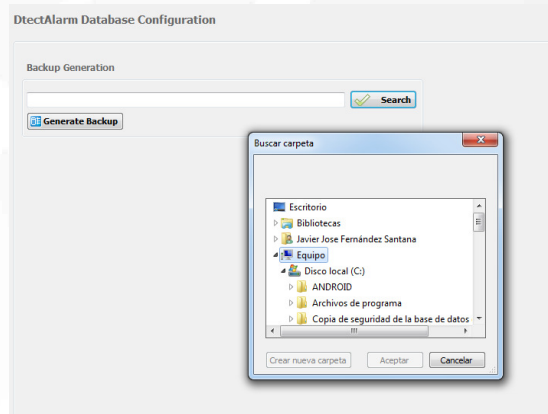
- To disable permissions again
- Exit and enter the application

13.2 Enabling permissions



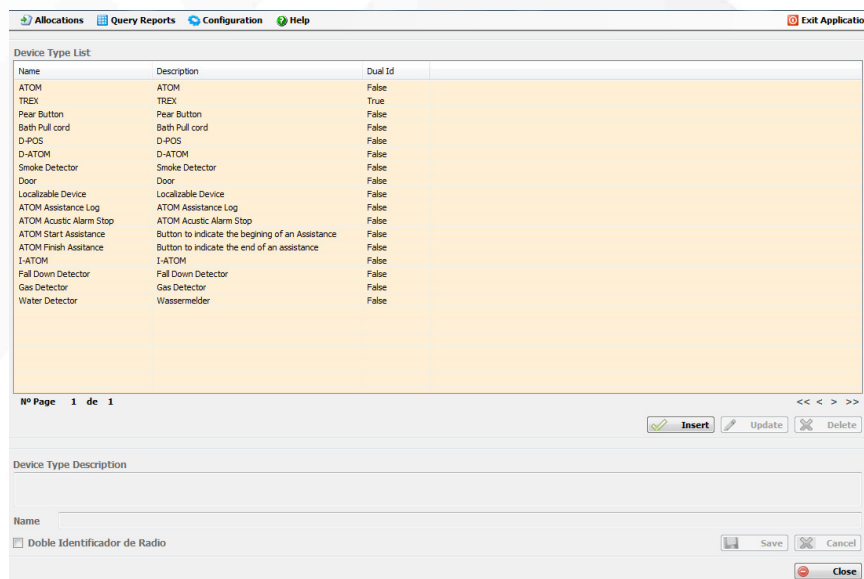
If you have to create a backup of the database, you have to:

- 1 Have a Management key created in the system, if not created you will never have to create it in Passwords.
- 2 Go to Enable Permissions option
- 3 Check the box "Generation Backup Permission"
- 4 Enter the name and path where you want to generate a unique file backup in the DB Configuration option.
- 5



13.3 Device Types Management

It allows you to add new types of device if you install a new device model in the system that did not exist when the installation was done.



To create a new type of device it will be necessary to:

- 1 Click on **Insert**
- 2 Fill the fields: Name and Description. And if the device has two own radio IDs, you have to check de field: Dual Radio ID

Finally click on the save button to register the new type of device.

If you want to change one, you should:



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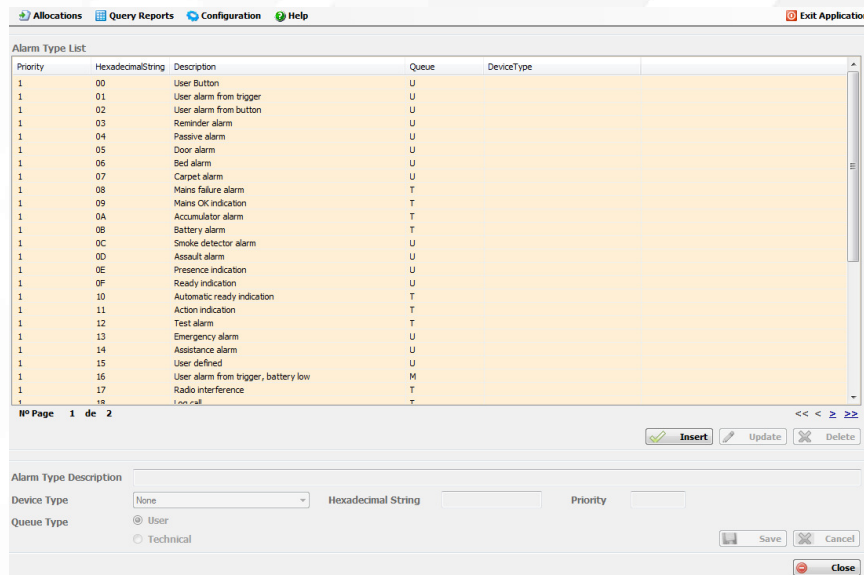
- 1 Select it from the list
- 2 Click on the Edit button
- 3 Making changes
- 4 Click on the Save button

To exit the management screen, click on Close. If not desired, this screen will be available to the left of the screen, in the open managements list.

Note: When including a new type of device, as a general rule, an upgrade package will be created and will be provided with the new device. The most common use of device management is to change the name or description of a device to facilitate the understanding of the user, if desired. Sometimes, due to the configuration of the computer culture, after installing the application, it is possible that some special characters appear wrong, as accents or umlauts. In this case we can correct the text from the types of device management.



13.4 Alarm Types Management



Priority	HexadecimalString	Description	Queue	DeviceType
1	00	User Button	U	
1	01	User alarm from trigger	U	
1	02	User alarm from button	U	
1	03	Reminder alarm	U	
1	04	Passive alarm	U	
1	05	Door alarm	U	
1	06	Bed alarm	U	
1	07	Carpet alarm	U	
1	08	Mains failure alarm	T	
1	09	Mains OK indication	T	
1	0A	Accumulator alarm	T	
1	0B	Battery alarm	T	
1	0C	Smoke detector alarm	U	
1	0D	Assault alarm	U	
1	0E	Presence indication	U	
1	0F	Ready indication	U	
1	10	Automatic ready indication	T	
1	11	Action indication	T	
1	12	Test alarm	T	
1	13	Emergency alarm	U	
1	14	Assistance alarm	U	
1	15	User defined	U	
1	16	User alarm from trigger, battery low	M	
1	17	Radio interference	T	
1	18	Low call	T	

As with the types of device, if a new model of device is installed on your system, it may include its own types of alarms that the system must know.

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

To create a new type of alarm it is necessary to:

- 1 Click on Insert
- 2 Fill in the fields of description, hexadecimal string, device type (it must have been created) and Type of Queue, if the alarm belongs to an alarm generated by a user or if it is a technical alarm.
- 3 Finally click on Save.

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If you want to change one, you should:

- 1 Select it from the list.
- 2 Click on the Edit button
- 3 Make changes
- 4 Click on the Save button

To exit the screen, click on the close button management. This screen will be available to the left of the screen, in the open management list

Note: When including a new type of device with its corresponding types of alarm, as a general rule, an upgrade package will be created.

Note: It is preferable not to make changes on the screens: management Device Types Management and Types of Alarm since it may get unexpected results.

13.5 Time management alarm

DtectAlarm allows you to configure the time during which a record is displayed in the alarm queue before it goes to historical records. Depending on the device that generated it and the type of alarm, a record may remain more or less time in the alarm queue.

The parameters to be considered for closure of the records are:

- Type of alarm of last alarm received in the record. They are all the alarms defined in the system for all types of devices, such as pressing a button, a pull cord, the start of care, the pressing of a button of DPOS.
- The state of the record can be:
 - Unattended
 - Attended
 - Help needed
 - Assistant helped
 - Technical
 - Assistance completed
- Time interval in seconds. It is the time that must elapse before the closing of the record.

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Depending on the type of alarm and the status of the record, you can close a record with a particular type of closure, if the configured interval of time has elapsed. The defined closing types for a record are:

- Unassigned
- Manual
- Automatic
- Open

The reasons why a file appears in the alarm queue can be:

Informative. It is necessary that the file remains in the queue to be taken into account.

1. To include information in the comment field of the record. If the file disappears from the alarm queue, you cannot associate any comments.
2. Manual closing of a record. You want the file to be monitored before disappearing from the queue.

To set the time during which a file may appear in the queue, you have to access the menu Alarm Time located in Settings:



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Alarm Timeout List

Timeout ID	Description	Alarm Type	Close Type	State Record	Duration
8	User alarm from trigger	User alarm from trigger	Auto	Assistant helped	800
7	User alarm from trigger	User alarm from trigger	Auto	Help needed	700
6	User alarm from trigger	User alarm from trigger	Auto	Attended	1
5	User alarm from trigger	User alarm from trigger	Auto	Unattended	400
42	Assistance alarm	Assistance alarm	Auto	Technical	400
41	Assistance alarm	Assistance alarm	Auto	Assistant helped	400
40	Assistance alarm	Assistance alarm	Auto	Help needed	400
4	User Button	User Button	Auto	Assistant helped	800
39	Assistance alarm	Assistance alarm	Auto	Attended	1
38	Assistance alarm	Assistance alarm	Auto	Unattended	400
37	Bed alarm	Bed alarm	Auto	Assistant finished	400
36	Bed alarm	Bed alarm	Auto	Assistant helped	800
35	Bed alarm	Bed alarm	Auto	Help needed	700
34	Bed alarm	Bed alarm	Auto	Attended	1
33	Bed alarm	Bed alarm	Auto	Unattended	400
32	Door alarm	Door alarm	Auto	Assistant finished	400
31	Door alarm	Door alarm	Auto	Assistant helped	800
30	Door alarm	Door alarm	Auto	Help needed	700
3	User Button	User Button	Auto	Help needed	700
29	Door alarm	Door alarm	Auto	Attended	1
28	Door alarm	Door alarm	Auto	Unattended	400
27	Passive alarm	Passive alarm	Auto	Assistant finished	400
26	Passive alarm	Passive alarm	Auto	Assistant helped	800
25	Passive alarm	Passive alarm	Auto	Help needed	700
24	Passive alarm	Passive alarm	Auto	Attended	1

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Insert Update Delete

Description

Alarm Type Personnel Position Location Close Type Auto

State Record Unattended Duration (seconds)

Save Cancel Close

It will be necessary to have access enabled to manage the time of the alarm in permissions management of the system, to do so, the administrator password of DtectAlarm will be needed.

Each record in this table, determines the behavior of a type of alarm and the state of the record. If the latest alarm from one of the active files, meets that condition, will be closed with the closing type defined after the time "Duration". If before the end of this time another alarm arrives, the conditions will change for the last alarm received for that record.

Applications

To determine a maximum time to attend a user. In this way the assistant is required to serve users in a given time.

Otherwise, if the configured time has elapsed, the file containing the alarm user will be automatically closed as "not attended". To do so, you have to configure it for all types of alarm selected which are in state





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"not attended" a while, after this time the file will be closed automatically.

To set an interval during which comments may be included in a file after being attended. You can set a time before the record is closed automatically or manually, for a record already attended, in order to add comments on it. At the time that a record disappears from the queue, you can not include any comments to it.

To make that certain alarms do not appear in the alarm queue. For example, the assistant DPOS position requires no treatment, only needs to be registered in the system. In this case, the prior time to closing will be 0. In this way the record that would create the position of an alarm DPOS will not appear in the alarm queue.

Here you can see how to set this case:

Descripción: Situación de un auxiliar. El expediente desaparece

Tipo de Alarma: Posición de personal

Tipo de Cierre: Automático

Estado Exp.: No Atendido

Duración (segundos): 0

Guardar Cancelar

To make the already attended records disappear at the time of care. This is useful when you want to use the alarm queue only to show the records that are not addressed. This is the case in which a screen is placed in a common place for assistants, where, without a Trex, they can check which alarms are pending of care.

Alarm Timeout List					
Timeout ID	Description	Alarm Type	Close Type	State Record	Duration
72	Alarma Atendida por TREX	Alarm Accepted	Auto	Attended	1
71	Alarma atendida presencia	Attendance Finished	Auto	Attended	1

13.6 Language settings.

It allows you to change the interface among three languages:

- German
- Spanish
- English

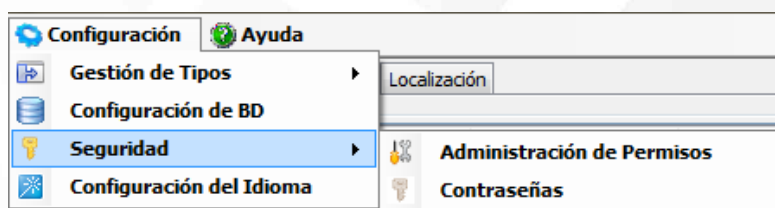


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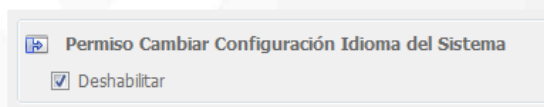
The application is displayed in the language that was chosen at the time of installation.

To switch languages is required to:

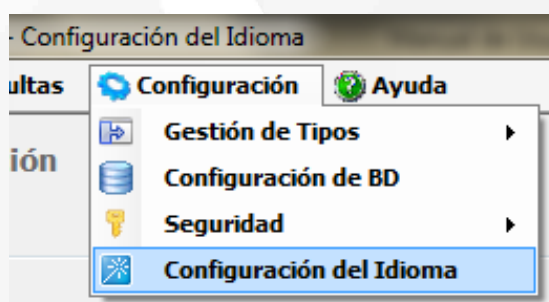
- 1 Enable permission to change the language in Settings -> Security -> Permissions Management. The administration password is needed.



- 2 Check the verification box.

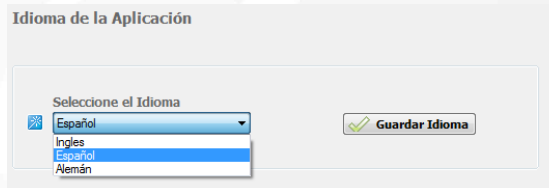


- 3 Select the option Language setting in the Settings menu to change the language.



The available languages are displayed in the combo box.

Select the language in which you want to see the application



The effects of the language changing are effective on both:

- The application interface
- The master tables of the database

At the end, you must restart the application, so the change will take effect.

14 Tasks Control (Not related with a pressing alarm).

The DtectAlarm system offers the possibility of controlling tasks. These tasks are those related with telecare and services offered in the center. With this control, you can perform quality management and control of incidents in a very accurate way. Depending on the specialty of the center, these tasks will be different. This model allows you to control generic tasks. For this, it uses the devices "Wall Button" or buttons on the wall. The professional providing the service will use this button when he starts the service and will press it again when the service is finalized. This will log the care timing in an accurate, simple, and optimal way, in order to not interfere with the work of those providing the service.

14.1 Devices

There are three types of Wall button devices aimed at controlling tasks:

1. ATOM Start Assistance: Start of assistance button. Its pressing will indicate the start of an activity that must be controlled.
2. ATOM End Assistance. End of assistance button: The relation between the two buttons is performed by a location. Pressing this button indicates that the task which was begun by pressing the start button is complete.



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3. ATOM Assistance: Start button and End Button. The first pressing of this button indicates the beginning of a task or service. The second pressing indicates the completion of the task.

The independent buttons of Start and End of Assistance must be related. The way of linking these buttons is to assign or belonging to a common location. They also could be assigned to a single user if provides some advantage to the design of the facility. This relationship between the two devices causes that the two buttons take part of the file, indicating to a case that means the start of the activity and the other the end of it.

In the case of one-button Start/End, if you push the same button you can control the duration of the activity. The odd pressing represents the beginning of the activity and the even pressing is the completion of the activity. When a professional, such as care personnel, cleaning or maintenance, wants to indicate the start of an activity, he should mark the beginning of the activity by pressing the wall button. Once the activity is complete, he will press the wall button dedicated to capture the end of the task. The system will capture the time spent on the activity. Then, the name or description's task that was carried out should be registered in the comments.

At the end of a task the record will appear closed in the alarm queue but will not disappear until after a time, allowing those who did the task or a supervisor to add, if necessary, a text describing the task in the observations field of the record.

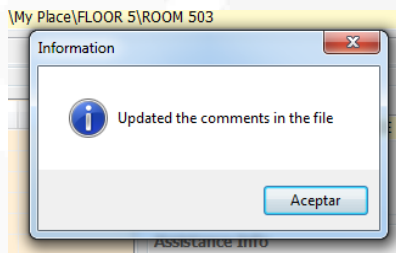
The screenshot shows a software interface for managing ATOM Assistance logs. At the top, there are tabs for 'Active Files', 'Logged Files', 'Technical Files', 'Other Alarms', and 'Localize'. Below this is a table with columns: Time, User, Device, Alarm Type, Location, Attend by, and With the assistance of. The table contains three rows of data:

Time	User	Device	Alarm Type	Location	Attend by	With the assistance of
17:32:17		START SERVICE B...	Attendance Started	ROOM 503		
17:32:17		START SERVICE B...	Attendance Started	ROOM 503		
17:32:38		START SERVICE B...	Attendance Finished	ROOM 503		

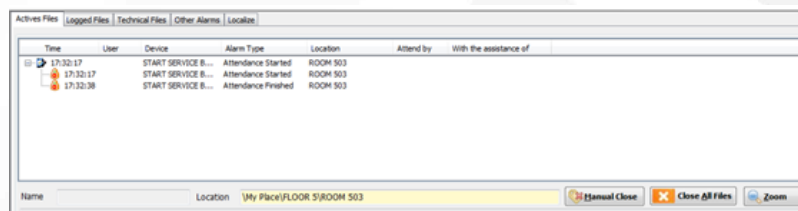
Below the table, there are buttons for 'Manual Close', 'Close All Files', and 'Zoom'. The interface also includes sections for 'Users / Locations' (listing users like PETER GARCIA and LARS MALDINI), 'Device User Information' (showing device name 'START SERVICE BOTON 503', radio codes, and location 'ROOM 503'), and 'Assistance Info' (with fields for Name, Date, and Assistance TREX). At the bottom, there is a 'File Comments' section with a text input field and a 'Save Observation' button.



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The time during which a complete file remains in the alarm queue is configurable in an internal timesheets.



If for some reason the person performing a task forgets to press the button to end the activity, the record will remain open in the alarm queue waiting to receive the end of it. In this case, as it has been an oversight, this event will not occur. The system waits a range of standard time, and when this time expires, closes the record automatically.

14.2 Configuration

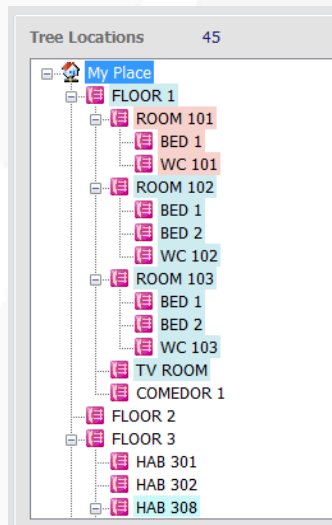
The device for control of the activity should be recorded as another Device Management.

In the following example you will see:

- 1 How to configure a start and end button to control tasks in a room.
- 2 How to configure two buttons to control activities in a corridor.

First you must check the configuration of locations.

You can take as an example the following distribution of locations in a residence.



Room 111 groups a bathroom and two beds and belongs to the West corridor, which includes rooms 111, 112, 113, the dining room and the TV room.

In the first case you see how to configure a button Start / End to control activities in room 111:

Descripción Dispositivo	
Pulsador para el control de las actividades en habitación	
Nombre	Control Tareas
Nº Serie	0031032
Asignación Tipo Dispositivo	
Tipo de Dispositivo	Botón Inicio/Fin Asistencia
Asignación de Ubicación	
Ubicación	Habitación 111
Asignación Identificadores de Radio	
Identificador de Radio 1	12AB <input type="button" value="Detectar id Radio"/>
Identificador de Radio 2	<input type="text"/> <input type="button" value="Detectar id Radio"/>

You will need:

- To assign the location of the room
- To Define the type of device (such as Start / End Assistance Button)
- Register radio code
-



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In the second case we want to configure two buttons, a start button and an end button in order to control the activities in the west corridor.

Start button Configuration

Device Description: Button for cleaning service

Name: Service button

Serial Number: 45678234

Assigned Device Type: Button to indicate the beginning of an Assis.

Assigned Location: FLOOR 1

Assigned Radio ID: 87A3

Radio Code 1: 87A3

Radio Code 2:

Buttons: Detect id Radio, Save, Cancel, Close

End button configuration:

Device Description: Button for cleaning service

Name: Service Button

Serial Number: 786534

Assigned Device Type: Button to indicate the end of an assistance.

Assigned Location: FLOOR 1

Assigned Radio ID: 45E1

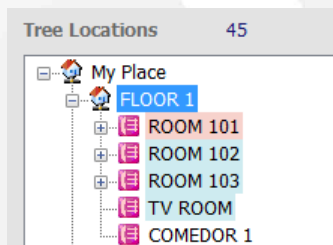
Radio Code 1: 45E1

Radio Code 2:

Buttons: Detect id Radio, Save, Cancel, Close

You will need:

To assign the same location. In this case, Floor 1:



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- To define each device as the type that belongs to it:
 - Button to indicate the start of assistance.
 - Button to indicate the end of assistance.
 - To record radio code for each of them.

Note: The start and end task control buttons should not be configured in the TREX as these alarms are not generated from the user and do not need to be attended by the care personnel. They could be configured in a TREX if you want to perform oversight beyond registration tasks performed by the application, if you want to monitor this activity in real time by a supervisor through a TREX, but if there is no need for this, the radio codes of the wall buttons in the TREX should not be configured.

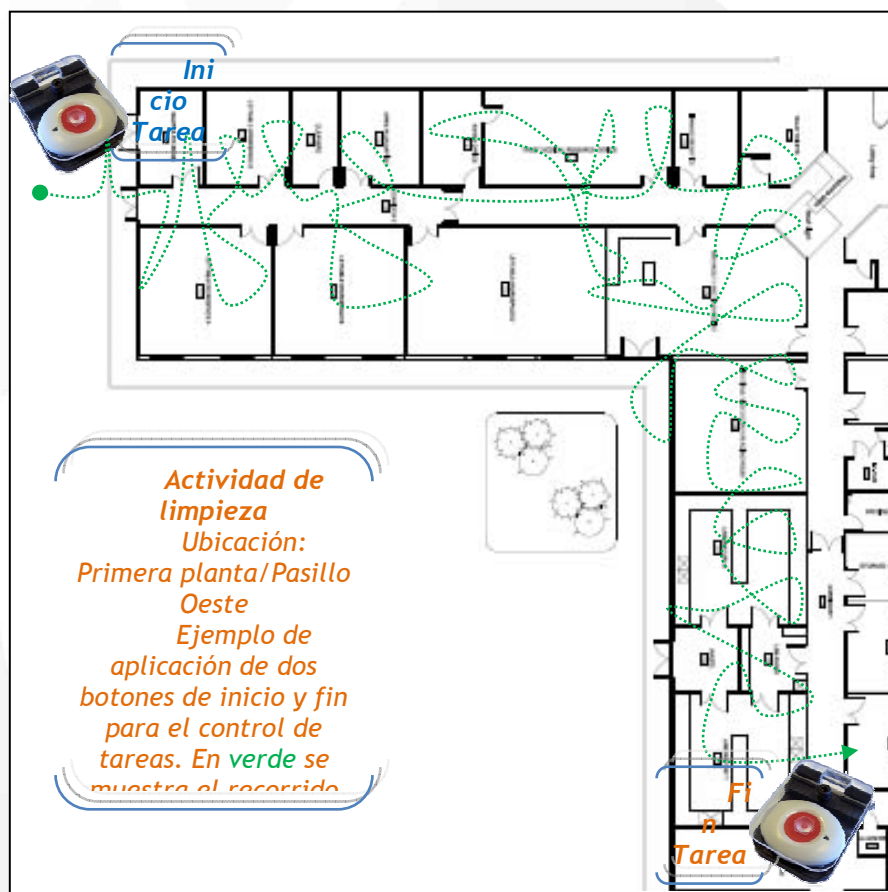
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14.3 A button vs. two buttons for tasks control.

The reason why there is a button that does both start and end and two buttons to perform this task independently makes sense in some scenarios. For example if you want to control the time spent on the cleaning, it could be put on each location of a residence, a start/end button for counting the time devoted to clean individually each space.

The sum of these times would show in a very precise way the cleaning time spent. But actually, in this example, there is no need to carry a very comprehensive control of time spent on each space. The required need would be to only know how much time was devoted to the cleaning per plant. You could put a start button at the beginning of a corridor and another one at the end of it.

Example:



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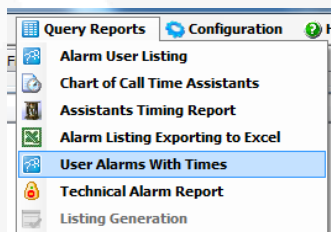
In this case it is not necessary to put a button in each room. It is located one at the beginning of the corridor and another one at the end. At the end, cleaning staff can continue its activity in another corridor without returning to the starting point. The two buttons are assigned to the West corridor of the First Floor. The maximum time configuration for this case must be greater than that must take a cleaning person to perform this task in the whole plant.

The application of one or two buttons to control the time of the tasks depends on:

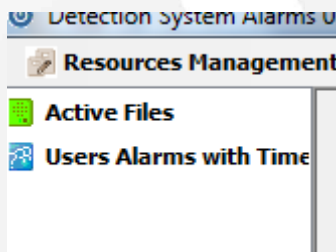
- Distribution of spaces in the center.
- Activity type: There are tasks that need to be controlled collectively, for example, cleaning, catering... While others are controlled individually as personal care activity to a patient, such as posture change, probing...

14.4 Tasks control queries

You can access to the Tasks Control List in the menu Queries, in the User List option.



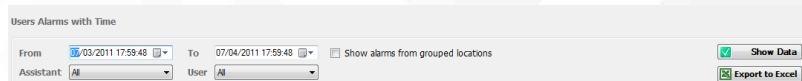
The list will appear by selecting the option List of Open Forms.



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You must select the interval at which to do the query. The user filter makes sense if a user has been assigned to a particular location, such as Room 111, but it does make sense in the case of using the two buttons start and end separated, since the location refers to all the corridor of a plant.

Here is the list of tasks performed.

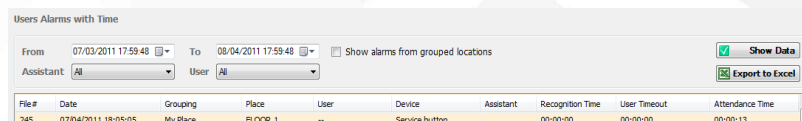


Users Alarms with Time

From: 03/03/2011 17:59:48 To: 07/04/2011 17:59:48 Show alarms from grouped locations Show Data

Assistant: All User: All

This is a summary of relevant fields:



Users Alarms with Time

From: 07/03/2011 17:59:48 To: 08/04/2011 17:59:48 Show alarms from grouped locations Show Data

Assistant: All User: All

File #	Date	Grouping	Place	User	Device	Assistant	Recognition Time	User Timeout	Attendance Time
245	07/04/2011 18:05:05	My Place	FLOOR 1	--	Service button		00:00:00	00:00:00	00:00:13

- Date and time of the record
- Group to which the file belongs
- Location where the activity was carried out.
- A device that controlled the activity indicates that it was an activity control of the corridor and not a specific task in a room.
- Assistance duration: it indicates how long it took to perform the activity.

As with the lists of alarm user, the result of this query can be exported to Excel.