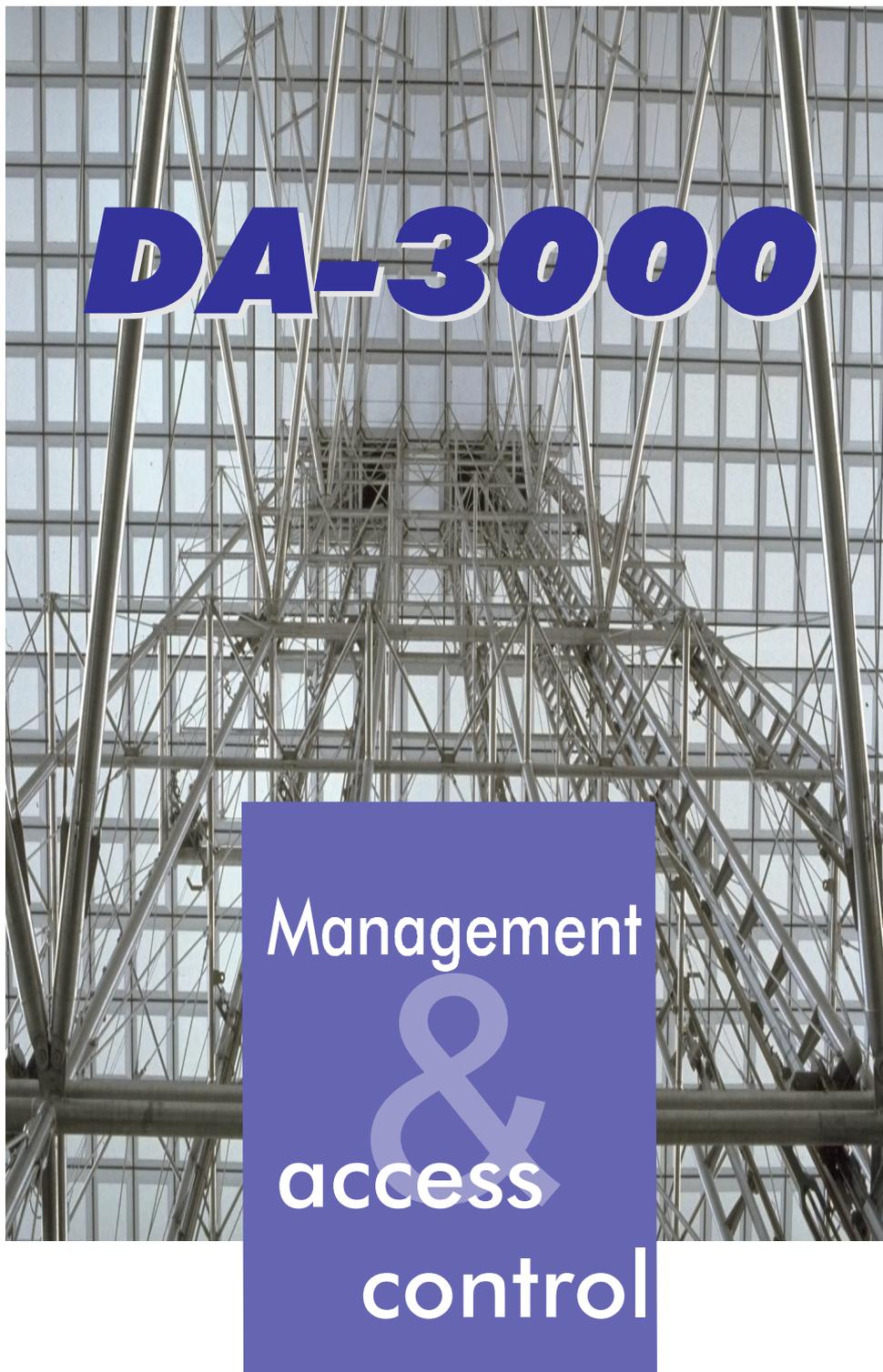


***User manual
of the SSI 3000 access
control system***



Edition of 13 may 2002

* * *

Contents

1	Generalities.....	3
2	Cablings and technical data of the equipments of the system.....	4
3	Principle and uses of buses.....	4
4	The controller DA-3101.....	5
5	The access unit DA-3201.....	6
6	The output card DA-3209.....	7
7	Cabling example.....	8
8	Use of the software.....	9
9	Software installation.....	9
10	The toolbar.....	9
11	The Windows.....	9
12	Create an installation.....	11
13	Programming.....	20
14	Users.....	22
15	Events.....	26
16	View.....	28
17	Windows.....	28
18	Help.....	29

1 Generalities.

The SSI 3000 system is an autonomous central of access control which administers 10 accesses for 1000 users.

This system is convenient for the multitudes of demands in the access control : visualization directly of the state of the component equipments system, time zones management, protection of parameters by introduction of passwords,...

It proposes several readers types, a successful software adapted to your necessities as well as a material configuration such as it allows to evolve or to modify very easily according to the architecture of your buildings.

The set consists of a controller who administers, by way of the main bus (bus among the controller and the access unities), one or several access unities which, by way of a local bus (drank between the access unities and the readers), administers all the parameters and the equipments of a door, that is :

- 2 readers (proximity, magnetic, Dallas, Wiegand, keyboard, infrared,...)
- 2 keypads
- 2 displays
- the status contact of the access (opened or closed)
- the activation of the opening
- the request of manual opening

System is configured by a computer by way of a software under Windows 95, 98, or NT, who offers a friendly environment for an optimal use.

After the introduction of necessary data by way of the software, this one send all the data towards the controller. In this way, the controller has the possibility to work in an autonomous way.

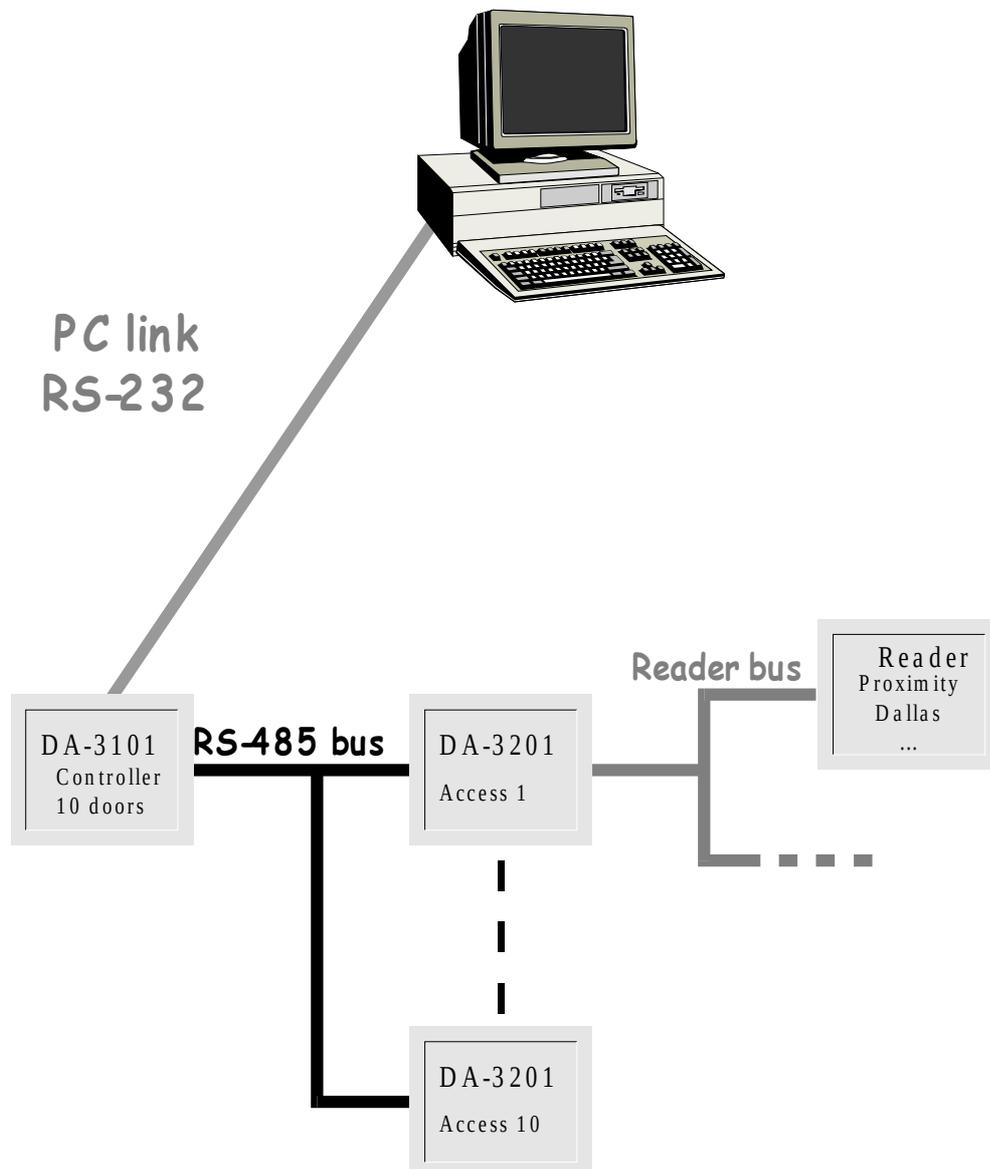
By means of the software, you will have possibility :

- to see :
 - your installation
 - the complete list of users and their states
 - the events list in real-time
 - a data base regrouping the historic of various events
- to change the situation of users in three states :
 - outside
 - inside
 - neutral
- To print lists like :
 - the users list
 - the events list
 - the list of the various groups
- to edit 4 levels of passwords to limit access to modifications.

2 Cablings and technical data of the equipments of the system.

In this chapter will be described the various component elements system (level technical data of cabling of cards).

3 Principle and uses of buses.



The cabling of the different elements which compose system is described in the pages which follow.

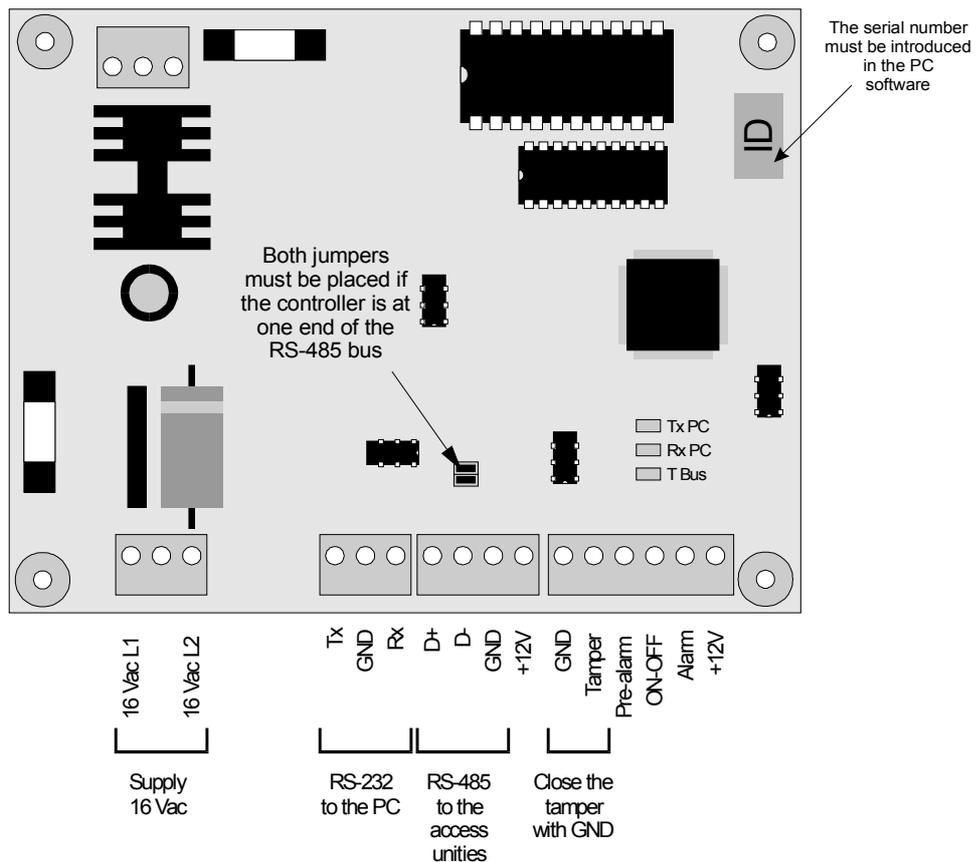
4The controller DA-3101.

The controller DA-3101 is the master of a network of 10 doors. The controller authorizes the access unit to open a door, according to the information read by the reader and information of configuration (time zones, access, holidays , etc.) loaded in his not volatile memory by the PC. The controller interrogates every access unities 5 times by second.

- ☞ Autonomous (connection PC only for the configuration and the analysis) ;
- ☞ Until 1000 users and 10 access unities ;
- ☞ Memorization of the last 2500 events ;
- ☞ Anti-pass back by door ;
- ☞ Management of leaves ;
- ☞ 80 time zones and 50 different groups of users ;
- ☞ Output relay, presence user and defaults system (1A / 48 Vdc-ac) ;
- ☞ Break input (tamper) ;
- ☞ Connection towards the PC in RS-232 ;
- ☞ Connection in RS-485 towards the access unities ;
- ☞ Supply 16 Vac ;
- ☞ +12V / 1,5 A max. output ;
- ☞ Dimensions : 130 x 100 x 30 mm ;

Other version :

DA-3121 : the same card placed in case with power supply.



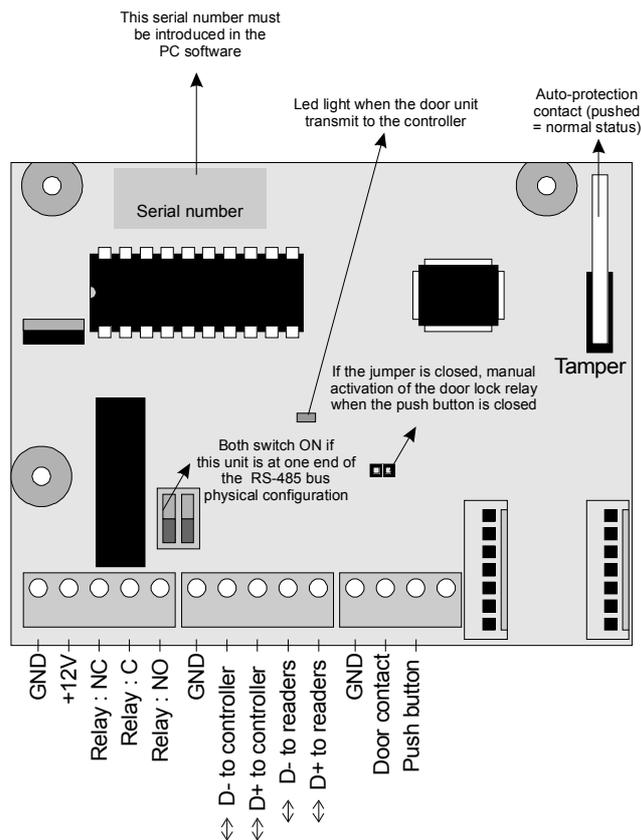
5 The access unit DA-3201.

An access unit (DA-3201) is associated to every door. The access unit allows dialogue with 2 simple or double readers (equipped possibly each of one specific interface). The access unit communicates information read by the reader to every request of the controller. Every access unit is interrogated 5 times by second by the controller DA-3101.

- ☞ Management of 2 simple or double readers (proximity, magnetic, Dallas, Wiegand, keypad, infrared,...) ;
- Monitoring of the contact of door and the button for manual opening ;
- Management of 2 displays ;
- Output relay for door lock command (1A / 48 Vdc-ac) ;
- Output for signalization of breaking-in and freezing of the door (12 Vdc / 50 mA) ;
- Buzzer output (12 Vdc / 50 mA) ;
- Connection in RS-485 towards the controller DA-3101 / DA-3121 ;
- Break-input (tamper) ;
- Supply 12 Vdc (100 mA) ;
- Dimensions : 100 x 85 x 30 mm ;

Other version :

DA-3211 : the same card placed in case with power supply.

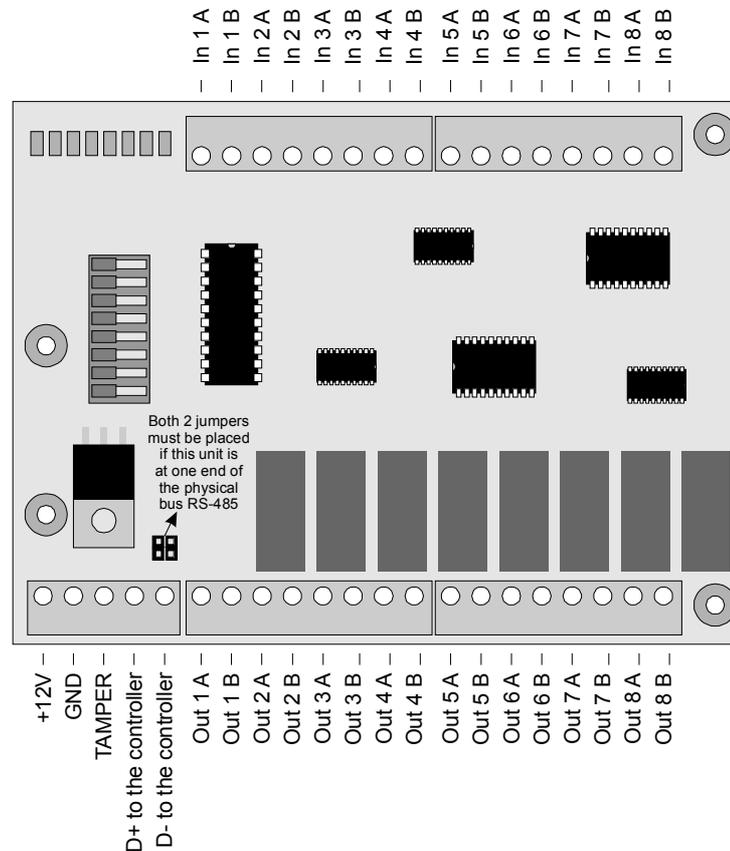


6 The output card DA-3209.

The output card DA-3209 allows an interaction between access control and, for example, a anti-intrusion central. The building can be divided into 8 zones. Every output relay on the card is the image of the presence or not of an user in one of these zones ; zones are defined during the configuration of the controller.

Notice : in the SSI 3000 system, inputs are not used.

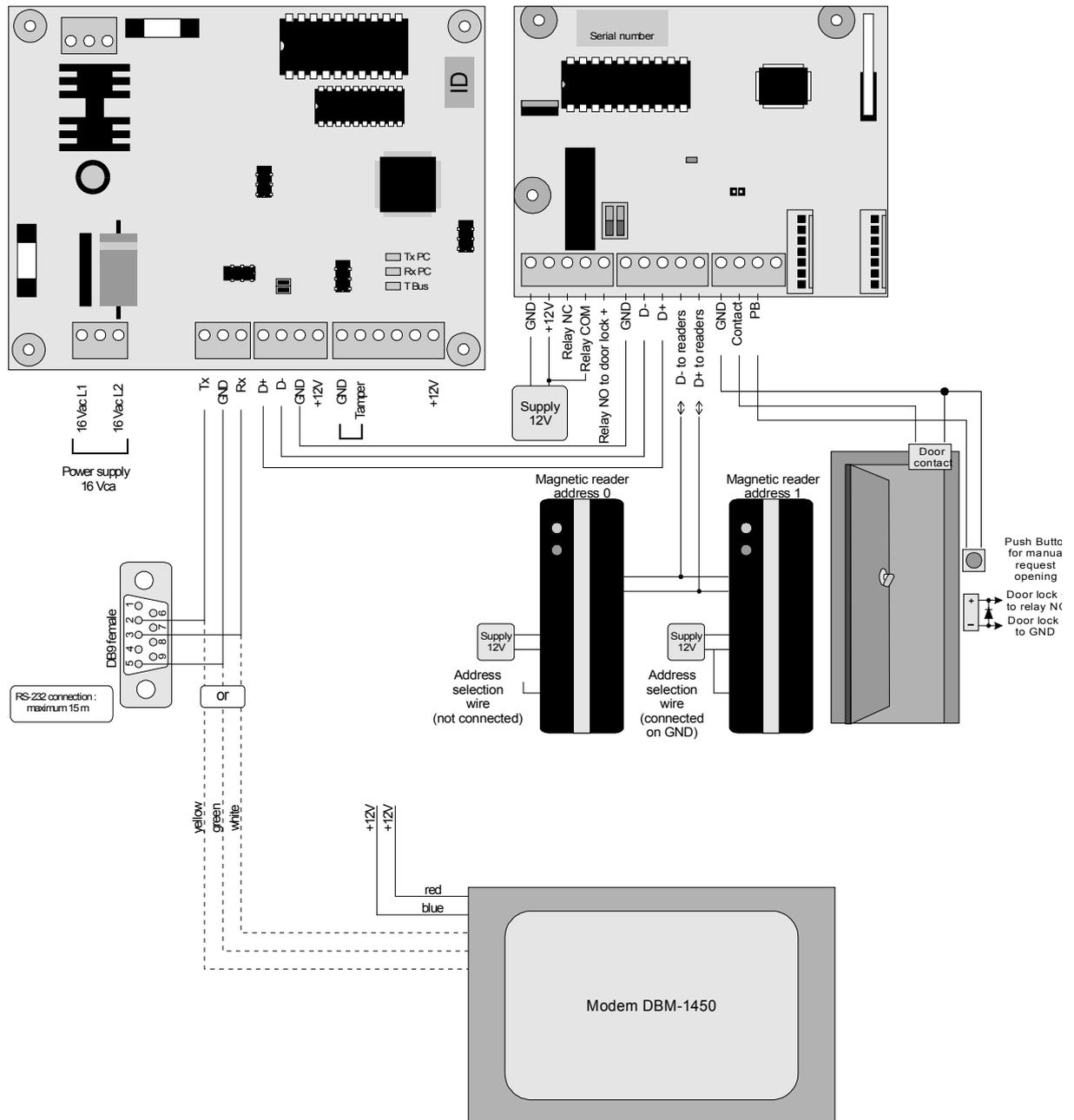
- Management of 8 zones.
- 8 output relays (1A / 48 Vdc-ac).
- Supply 12 Vdc (250 my).
- Dimensions : 120 x 90 x 30 mm.



7Cabling example.

The controller and the access unit form the base of the system of access control. There are a lot of possibilities as for the available accessories, that it is not possible to describe here. Are available, among others, the readers (proximity, Dallas, Wiegand , magnetic, barcodes , keypad, ...), the display, interfaces (ISO2, Wiegand , Dallas, ...), the converter isolator, the battery,...

Each of these elements is delivered with its cabling diagram ; however, below, you will find an example of cabling of a controller, of an access unit and of two magnetic reader :



8 Use of the software.

The software allows to make all the parameter setting, as *hardware* as *software* of the installation. In this chapter, we are going to review all the functions of the software.

9 Software installation.

To install the program, insert the CD-ROM into the reader and the installation starts up automatically. But if it is not the case, click on "**Setup.exe**" and the installation will start. Follow instructions, and launch program by a double-clicking on the present icon in the group SSI 3000. Installation opens a starting data base which passwords associated to this data base are : SSI1 , SSI2 , SSI3, SSI4 respectively for level 1 , 2 , 3 and 4.

10 The toolbar.

The toolbar decomposes as follows :

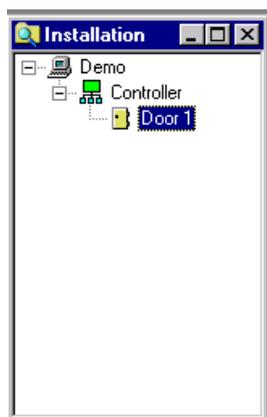
-  : call installation by means of a modem.
-  : downloading of all the introduced parameters during the installation.
-  : preview before printing of the events list.
-  : printing of the events list.
-  : programming of time zones.
-  : programming of the groups of users.
-  : filtering of events according to the criteria of informed choices.
-  : open and / or activate the window of installation.
-  : open and / or activate the window of events in real time.
-  : open and / or activate the window of the list of the users.
-  : open and / or activate the window of events.
-  : reset passwords level.
-  : notes the alarm and stop the sound signal.
-  : request of information.

Icons above described are by way of shortcuts of functions described in the point 3.4.

11 The Windows.

The following windows are accessible by the « **Window** » menu or by clicking the icon described before in the toolbar, or still, if the window is opened, by activating the window.

Functions available in each of the windows above described are also available in the menus described in the point 3.4.

Installation window :

This window resumes the arborescence of your installation and indicates in real-time the status of elements which compose your system (see in the point 3.4.).

Events window :

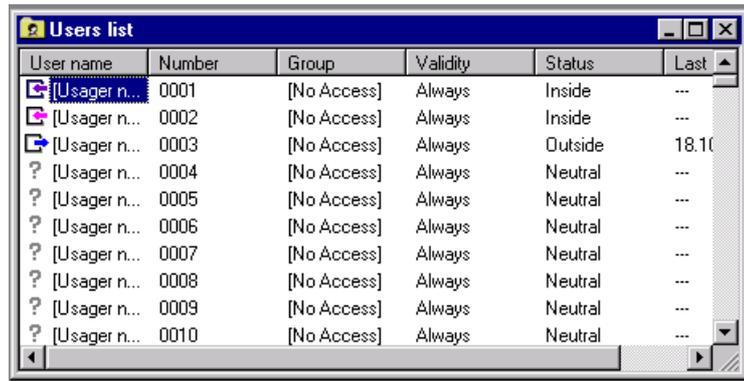
Date & Time	User	Activity	Place
18.10.2000 14:40:18	---	Installation opened	---
18.10.2000 14:43:37	---	Installation closed	---
18.10.2000 14:43:42	---	Installation opened	---
18.10.2000 14:43:52	---	Password level 4	---
18.10.2000 14:44:08	---	Master on Line	Controller
18.10.2000 13:13:38	---	Power up	Controller
18.10.2000 13:13:38	---	Master Tamper	Controller
18.10.2000 13:13:39	---	Door-Unit on Line	Door 1
18.10.2000 13:13:39	---	Status relay On	Controller
18.10.2000 13:13:39	---	STId On-Line	Door 1 (side 1)
18.10.2000 13:13:39	---	STId On-Line	Door 1 (side 0)
18.10.2000 13:21:41	(0003) [Usager numéro 3]	Input Allowed	Door 1 (side 0)
18.10.2000 13:21:44	(0003) [Usager numéro 3]	Output Allowed	Door 1 (side 1)

This window resumes the historic of all the events (in the installation and interventions of the operator PC).

Real-time events window :

Date & Time	User	Activity	Place
18.10.2000 14:43:42	---	Installation opened	---
18.10.2000 14:43:52	---	Password level 4	---
18.10.2000 14:44:08	---	Master on Line	Controller
18.10.2000 13:13:38	---	Power up	Controller
18.10.2000 13:13:38	---	Master Tamper	Controller
18.10.2000 13:13:39	---	Door-Unit on Line	Door 1
18.10.2000 13:13:39	---	Status relay On	Controller
18.10.2000 13:13:39	---	STId On-Line	Door 1 (side 1)
18.10.2000 13:13:39	---	STId On-Line	Door 1 (side 0)
18.10.2000 13:21:41	(0003) [Usager numéro 3]	Input Allowed	Door 1 (side 0)
18.10.2000 13:21:44	(0003) [Usager numéro 3]	Output Allowed	Door 1 (side 1)

This window starts again, besides events system, events bound to the users. Note that once events taken out of the field of vision of the window, they are not more recoverable afterward.

Users list window :


User name	Number	Group	Validity	Status	Last
[Usager n...	0001	[No Access]	Always	Inside	...
[Usager n...	0002	[No Access]	Always	Inside	...
[Usager n...	0003	[No Access]	Always	Outside	18.10
[Usager n...	0004	[No Access]	Always	Neutral	...
[Usager n...	0005	[No Access]	Always	Neutral	...
[Usager n...	0006	[No Access]	Always	Neutral	...
[Usager n...	0007	[No Access]	Always	Neutral	...
[Usager n...	0008	[No Access]	Always	Neutral	...
[Usager n...	0009	[No Access]	Always	Neutral	...
[Usager n...	0010	[No Access]	Always	Neutral	...

This window gives you the list and the status of the persons listing and using the system of access control.

12 Create an installation.

When you launch the program for the first time after its installation on the hard disk, a demonstration configuration is opened. You can use it to discover the numerous possibilities of the software or to close it to begin your own installation.

But, before beginning, let us explain the principle of the password :

Some functions are indeed protected by a password which limits the possibilities of interventions, and so the not wished interventions, by an operator PC. There are 4 levels of password, that allows the operators PC to intervene in a more or less important way on the software, according to their level of responsibilities for example.

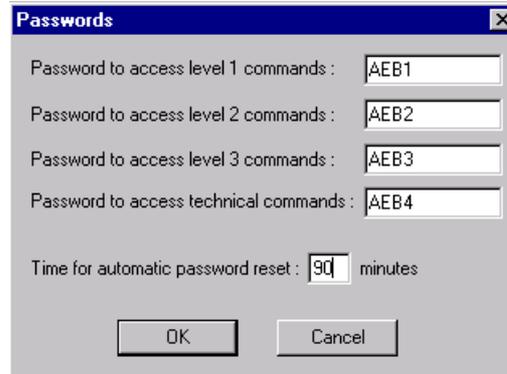
This password is asked every time when a function is selected, that could turn out holding during the creation of the installation, installation during which all the functions or almost are going to be called ; it would be necessary so for you every time to enter this word the sufficient password level:



It is necessary for you to know that, by default, passwords are :

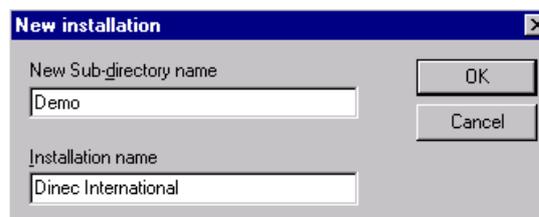
SSI1 , SSI2 , SSI3, SSI4

To be not constantly obliged to type the password, see in the menu « **Technical** », command « **Password** ». You will be then to introduce the password of the highest level (SSI4) when the computer will ask you for it and to give a long time (for example 60 or 90 minutes) for the temporization of the passwords reset. If, for example, you bring in 90 min for the level password 4, you will have access to all functions during 1h30 and you will not be so more interrogated constantly by the PC :



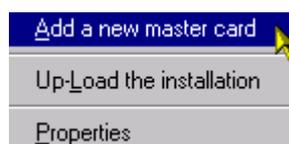
If, for example, you click in one of the opened windows, the temporization put back to zero and so the discount begins again in the beginning, in this case in 90 minutes. You here is so quiet to create your new installation without having to begin again operation every time.

Choose « **FileNew installation...** » and introduce the asked data :

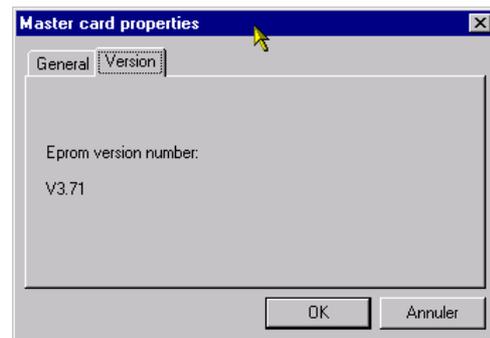


Installation is now named and listed ; it is necessary to type all parameters.

By positioning in the window « **Installation** » and by clicking the right button of the mouse by showing the name of the installation, appears a menu :



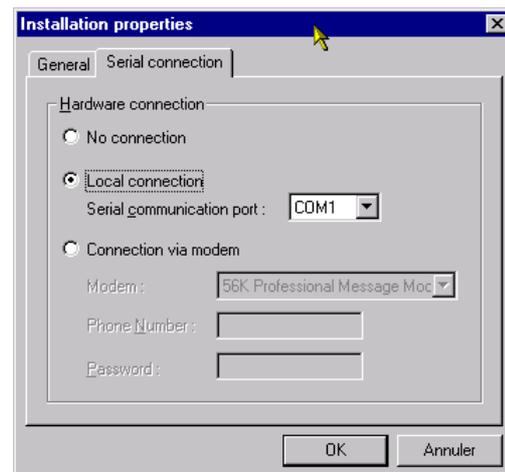
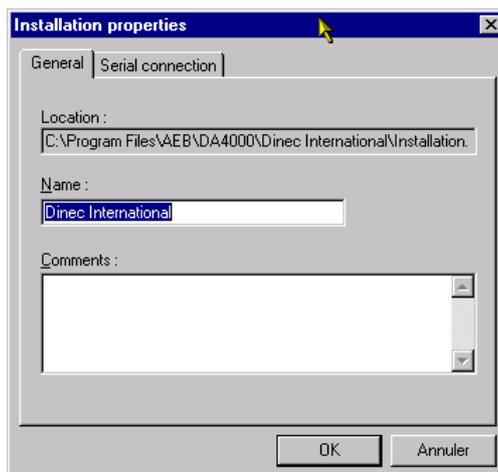
- Choose « **Add a new master card** » in the floating menu to add and settle the controller, the number of identification of which is resumed on the card :



Notice : if the controller is well configured, an icon  represents it. If it is badly configured, an icon  means that there is a problem (of communication among the controller and the PC, non-supply controller,).

The icon  means that the controller is appointed as being the master of the installation.

- Choose « **Up-load the installation** » in the floating menu to send parameters to the controller of the installation (when all the parameters seen farther down will be introduced).
- Choose « **Properties** » in the floating menu to set the main data of the installation as the communication mode ; note that here you will at any time be able to modify the name of your installation :



Notice : if a type of communication is selected, an icon  appears. If any type of connection is chosen, the icon  remains shown.

Normally, in this stage, communication between your PC and the controller must be established. If it is not case, verify your cabling, the supply of the controller and resume installation since the beginning.

If your controller has a correctly dialogue with the PC, it is now necessary for you to add one or several doors (maximum 10). For it, principle is the same that to add a controller to the installation : click on the right button of your mouse by showing the name of the installed controller, and made appear the following floating menu :



- Choose « **Add a new door unit** » in the floating menu to define parameters bound to this door :

The screenshot shows the 'Door properties' dialog box with the 'General' tab selected. The 'Name' field contains 'Door 1', the 'ID number' field contains '2202', and the 'Type of Location' section has 'Neutral' selected with a radio button. There are also 'OK' and 'Annuler' buttons at the bottom.

General :

Name : name, the most representative possible, of the selected door.

ID number : serial number appearing on the card.

Type of location : defines if the door allows to enter or to go out of a building; a neutral door is for example a door being in a studio but that does not split really this one .

Anti-Pass-Back mode : option obliging the user to present its code in entrance **and** in exit.

Door :

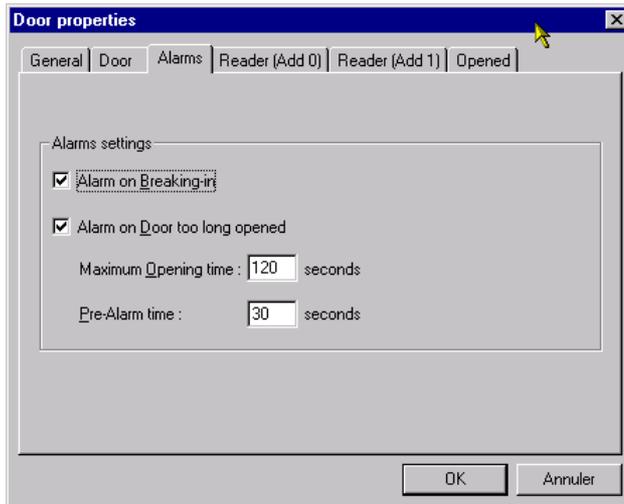
Action time : time opening of the door lock.

Toggle mode option : after the impulse of command, the door lock stays in its state and waits for the impulse of the following command to return in its initial state.

Door contact : if you use a door contact, you define the functioning mode here.

The screenshot shows the 'Door properties' dialog box with the 'Door' tab selected. The 'Action time' is set to '20 seconds', 'Toggle mode' is unchecked, and 'Use the lock Position control switch' is unchecked. In the 'Door Contact' section, 'Not connected' is selected with a radio button. There are also 'OK' and 'Annuler' buttons at the bottom.

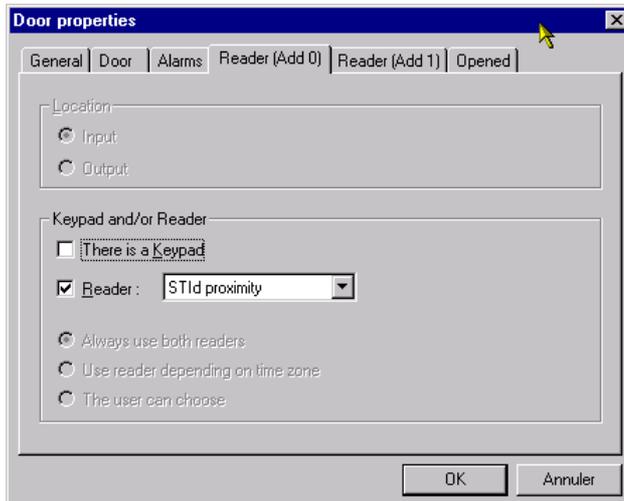
Alarms :



Alarms on Breaking-in : confirm this function if you wish to see appearing a message of alarm during a breaking-in.

Alarms on Door too long opened : confirm this function if you wish to see appearing a message of alarm during a too long opened door time.

Reader (Add 0 and 1) :

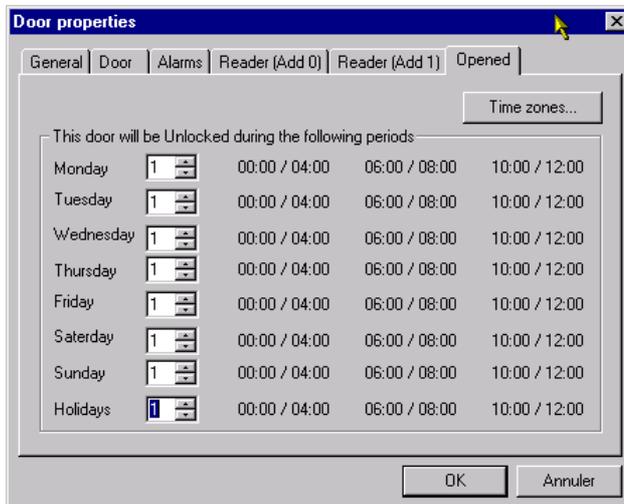


Location : defines the position of the reader at address 0 (idem for address 1) with regard to the door.

Keypad : if your installation is equipped with a keypad, select its presence here.

Reader : if your installation is equipped with a reader, define its type here.

Opened :



Time zones : by clicking on «*Time zones*», you define all the periods of access during which access will be **opened** and so opened to whoever, without particular request.

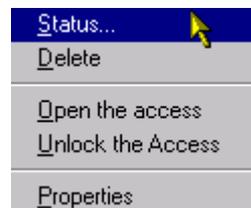
- Choose « **Delete** » in the floating menu to delete the controller (attention : it can't have underlying door to this controller).
- Choose « **Properties** » to verify or modify the parameters of the controller.

Notice : if the door is well configured, an icon  represents it.

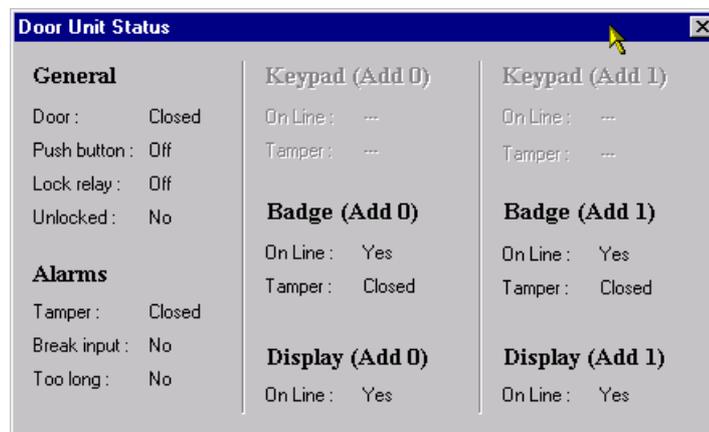
The other icons representing a door can be:

-  : door not on-line (badly cabled or badly configured (the serial number));
-  : door in alarm;
-  : badly configured door;
-  : opened door;

When the door is recognized, it is possible to control it on several points ; to do it, position the mouse in the window « **Installation** » and, by clicking on the right button of the mouse by showing the door to control, appears a floating menu :



- Choose « **Status** » in the floating menu to show in a window the state of the door and possibly problems :



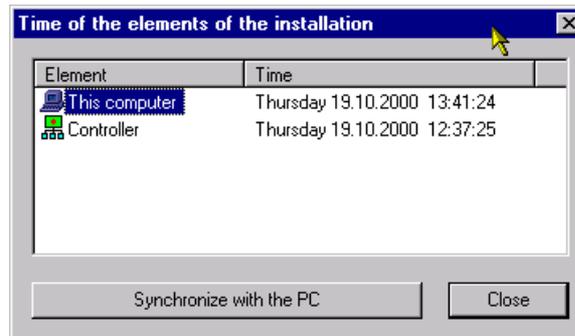
- Choose « **Delete** » in the floating menu to delete the door.
- Choose « **Open the access** » in the floating menu to force the opening of the door during the time of programming of the door lock. The visualization of the icon  confirms the opening.
- Choose « **Unlock the access** » in the floating menu to force the opening of the door during an indefinite time (until the operator make inverse operation, it should to say that, in the same menu, it must choose « **Re-lock the access** ». The visualization of the icon  confirms the opening.
- Choose « **Properties** » for calling the dialog box on the properties of door seen higher.

In this stage of the programming, *hardware* installation is ended. The controller, doors and the readers have to work correctly and it is advised to download installation by clicking on  or choose the command « **Up-load** » in the menu « **File** ».

Before programming accesses (time zones, groups of persons, categories, validities, suspensions,...), let us review the other commands available.

In the « **Technical** » menu :

« **Time & date** » : allows the synchronization of the hour of the various elements of the installation with the hour of the PC :

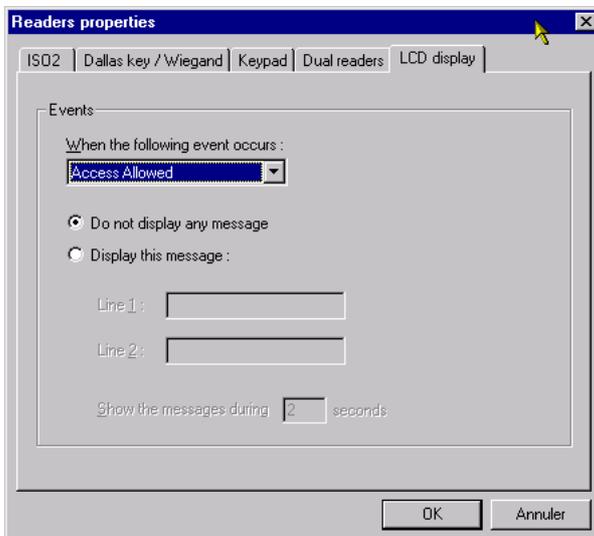
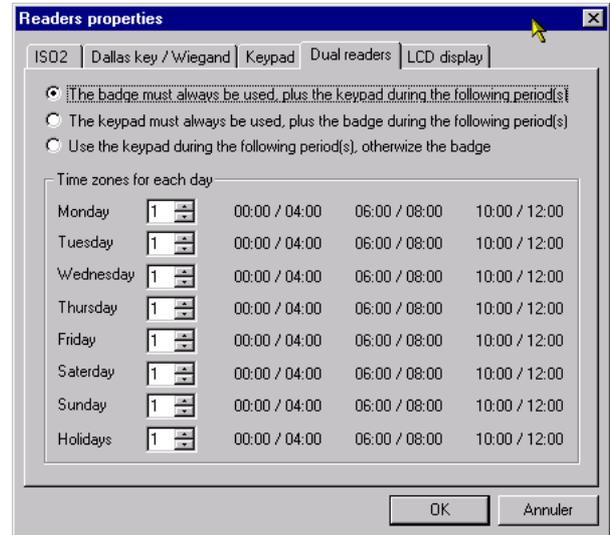
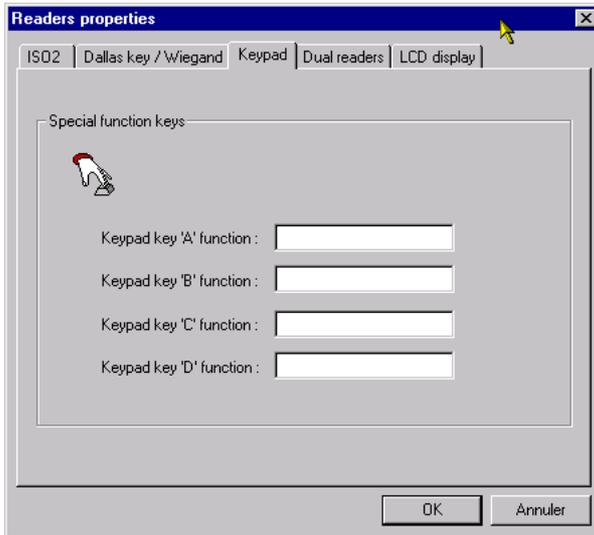
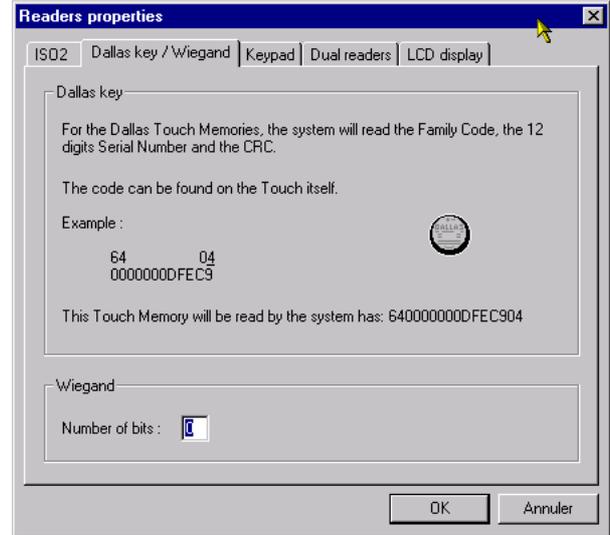
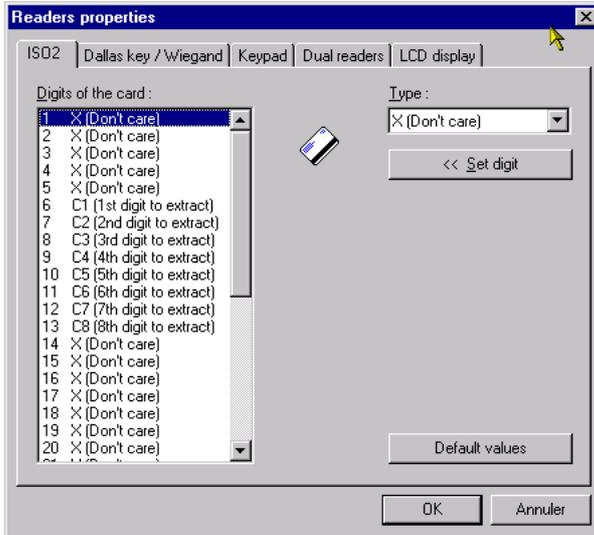


Click on « **Synchronize with the PC** » and the date and hour will fit automatically at these of the PC.

« **Passwords** » : allows to modify passwords as well as temporization of reset discount (explained in the beginning chapter) :



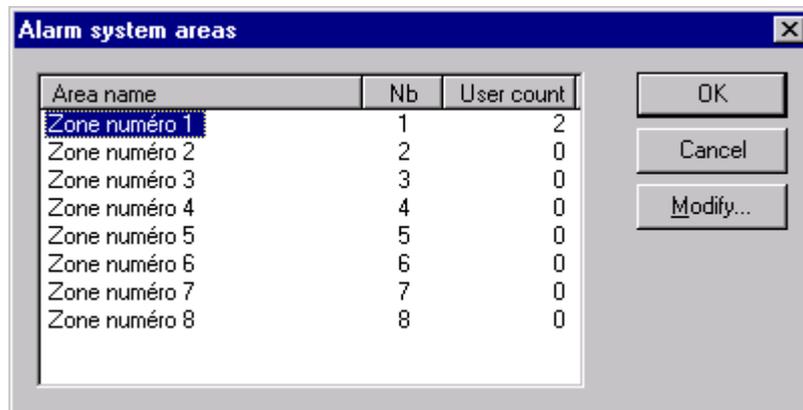
« Readers configurations... » : allows to configure different readers' type :



All these parameters allow to personalize your installation according to your material.

« **Alarm system areas...** » :

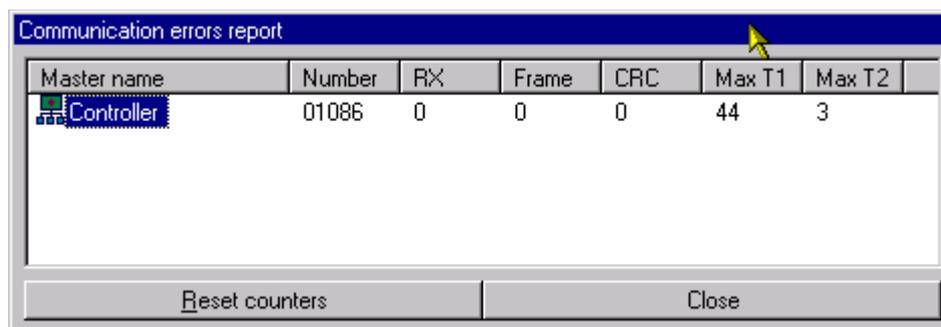
allows to show the number of users being in the various zones of the building ; by this dialog box, you can also modify the name of zones by clicking on « **Modify** » :

« **Acquit the Alarm** » :

stop sound alarm.

« **Network test...** » :

allows to show the good progress of the communication between the PC and the controller:

« **Reset access level...** » :

delete any validity of password and any access to the functions of the program ; it will so be necessary to reintroduce a new password to have access to functions again.

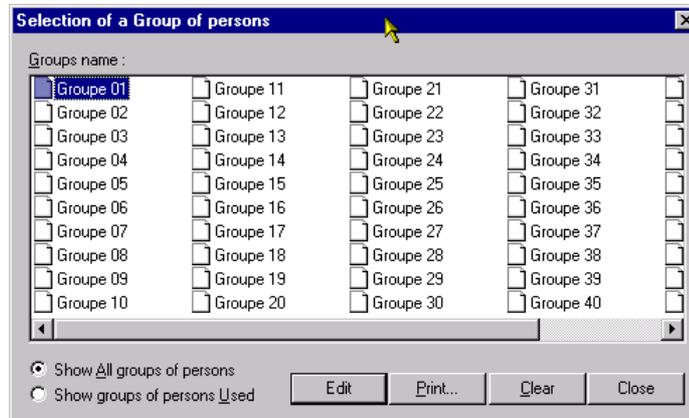
« **Replace the configuration file** » :

if, for a some reason, you have to replace the controller, a new file **ldnumber.pwd** will be put back to you with the new material. It is this file that should be loaded in the installation. Every installation can work only with the file **ldnumber.pwd** corresponding to the serial number of the controller.

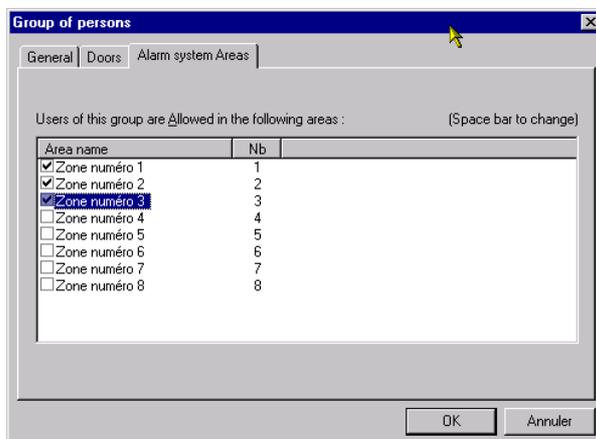
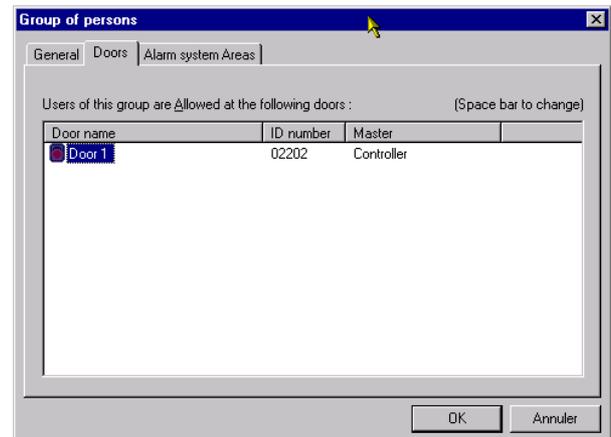
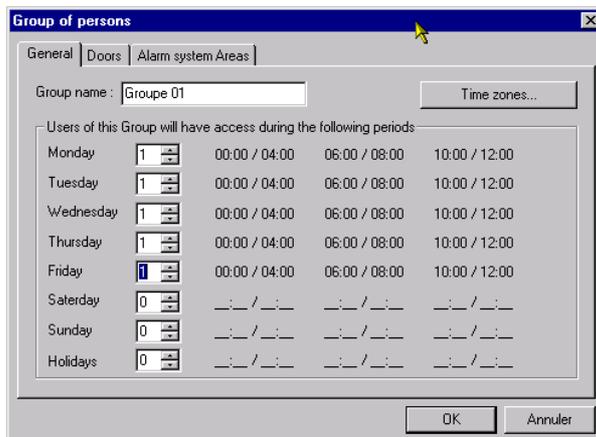
13 Programming.

In the « **Programming** » menu :

« **Group of persons...** » : you can create several groups of persons (50 maximum) and set these groups :



To do it, select a group and choose « **Edit** » ; define here the characteristics of your group :



All these parameters will be function of your necessities.

« **Time zones...** » : this function is the same that the one whom finds in the previous command « **Group of persons** », thumb index « **General** », button « **Time zones** ». It allows to program various types of daily time zones:

TZ	Period 1	Period 2	Period 3	Comments
0	/	/	/	
1	00:00 / 04:00	06:00 / 08:00	10:00 / 12:00	
2	/	/	/	
3	/	/	/	
4	/	/	/	

(Page-Up, Page-Down, Ctrl + Page-Up or Ctrl + Page-Down) OK Print... Cancel

« **Summer – Winter...** » : this function allows the automatic passage of the summer hour towards the winter hour by programming first dates of change. By confirming option « **Disable automatic change**»; automatic change will be suspended while dates will be kept in memory :

Dates of change

25.03.2001

Add Remove

OK Cancel

Disable the automatic change

« **Holidays...** » : this function allows to any more open accesses during the periods of leaves scheduled without changing anything in the programming of the users.

Dates

One day Every year Date 01 Month 01

One Single day 20.10.2000

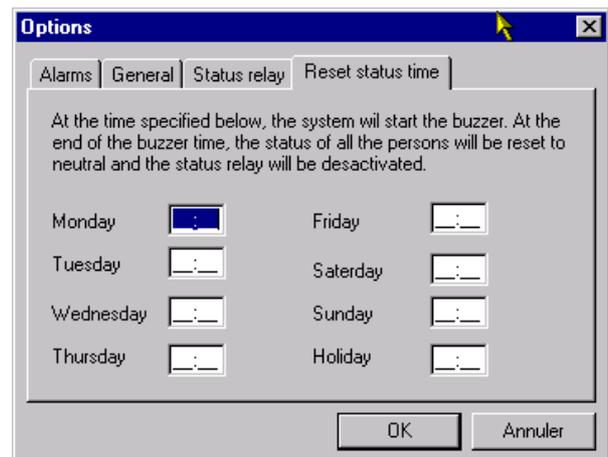
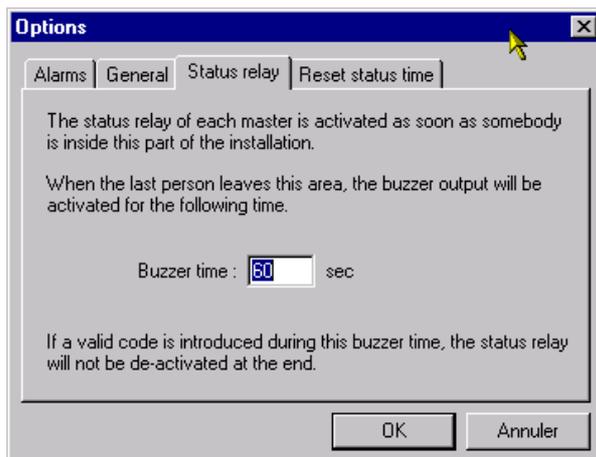
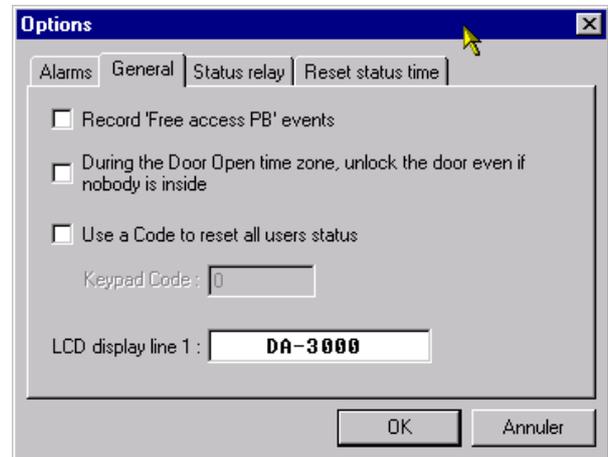
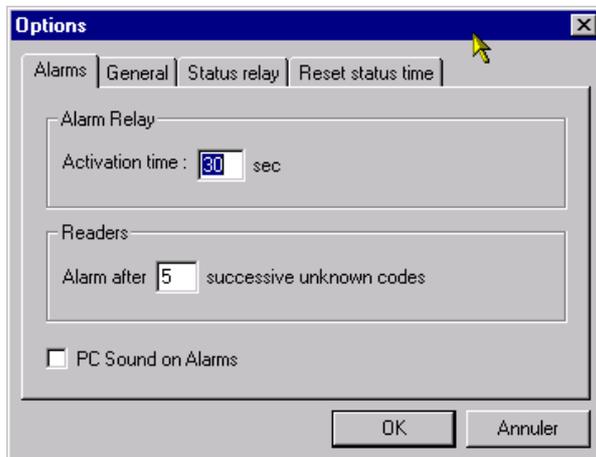
A Period 20.10.2000 21.10.2000

Add Remove

OK Cancel

However, it is made possible to authorize accesses to some doors for a group of users, for example for maintenance service : to do it, in the properties of « **Group of persons** », define in the thumb index « **General** » a schedule « **Holidays** » and belong the persons of the maintenance to this group.

« **Options...** » : this command proposes you several solutions which allow you to personalize your installation in functions of your necessities :



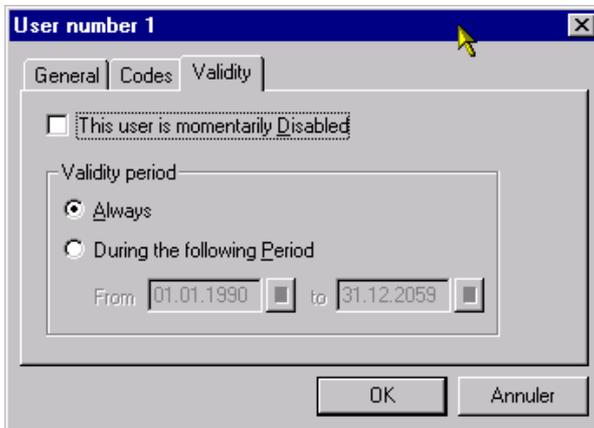
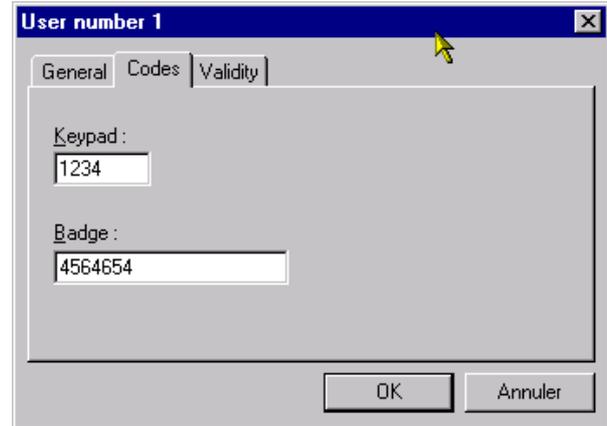
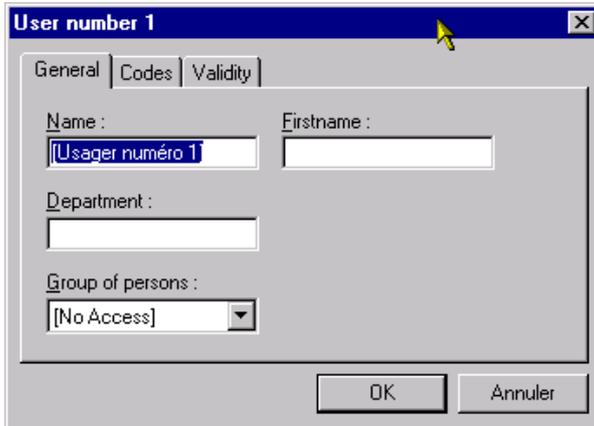
14Users.

So that the functions of this menu are not inactive, it is necessary that the window « **Users list** » is active.

In the « **Users** » menu :

« **Edit User informations...** » :

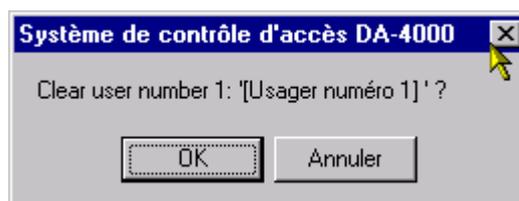
allows to introduce selected user data:



Note that this dialog box obtains also by double-clicking user's name in the list.

« **Clear** » :

delete an user selected in the list after having asked for confirmation :

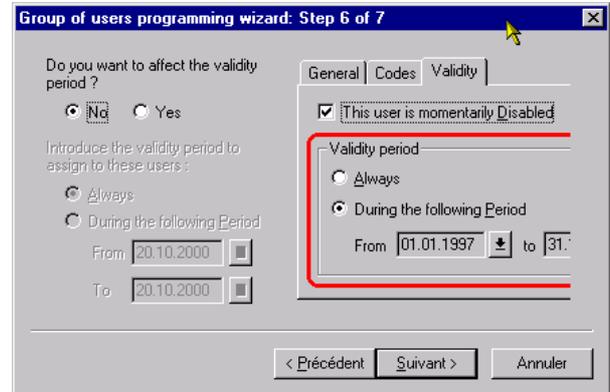
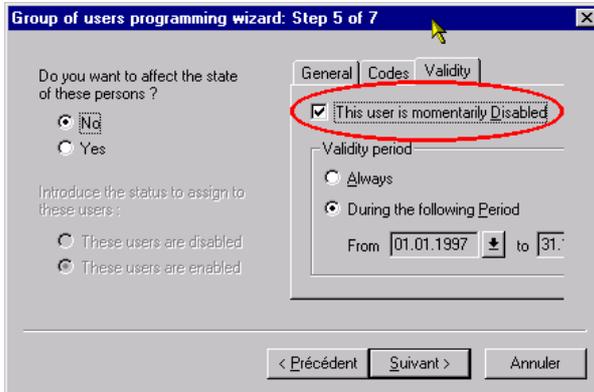
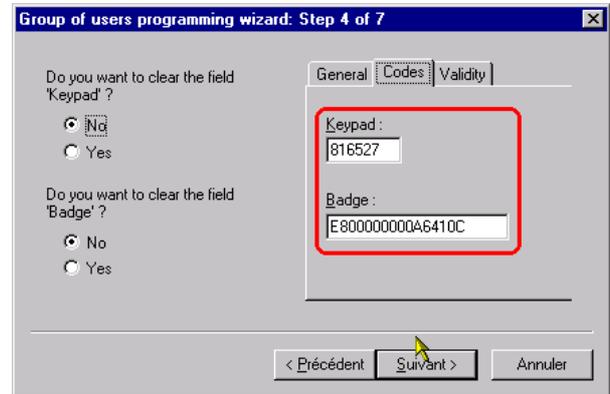
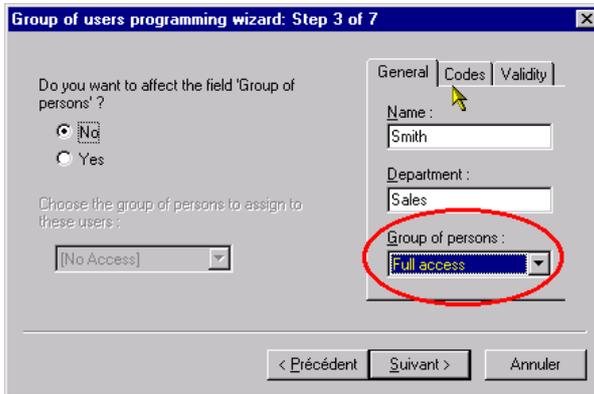
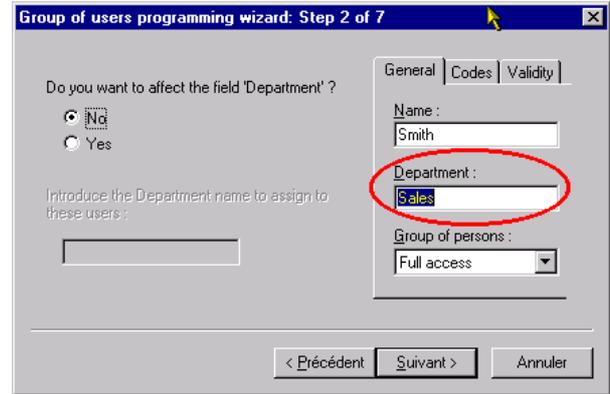
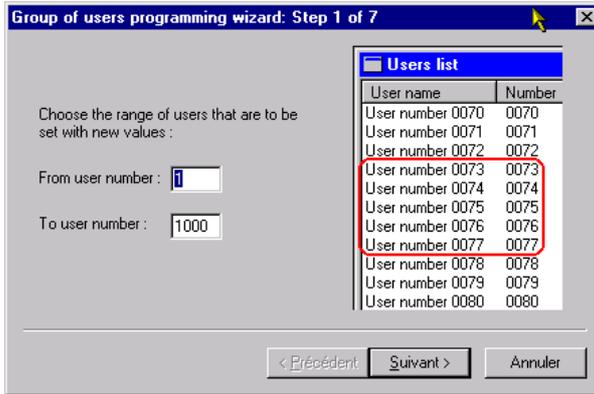


« **Change Status** » :

allows to introduce selected user data. In the users list, the last column gives you the situation of the user. This situation can be modified if necessary there choose here another situation for the selected user :



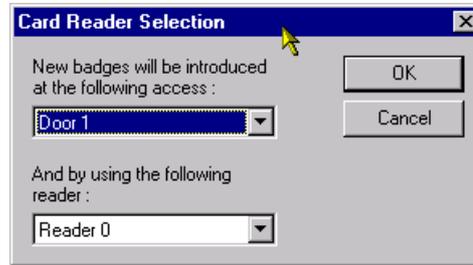
« Program a group of users... » : this command allows you step by step to program a group of users :



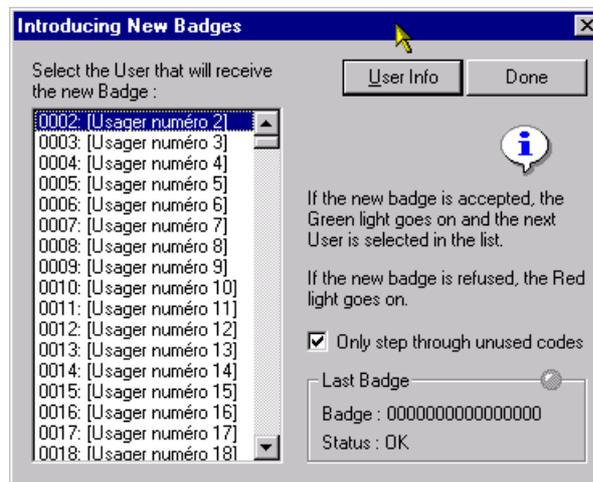
« **Change all users status** » : in the users list, the last column gives you the situation of the users. This situation can be modified if necessary there choose here another situation for all the users :

Everybody Neutral 

« **Introducing badges...** » : this command allows you to encode badges from any reader of your installation :

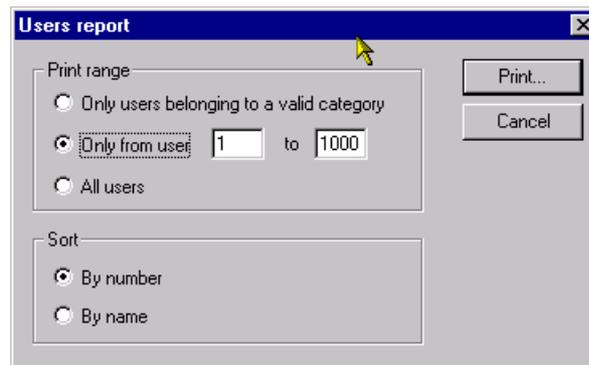


Select the door and the reader here by whom you go to encode your badges.



This window gives you the list of the users for whom it is necessary for you to encode badges and, in the reading of the badge, awards automatically code read to the user appearing of the list at the top. A green signal means that code is accepted ; a red signal means that code is incorrect (already used).

« **Users report...** » : this command allows you to print users' list following parameters to define :

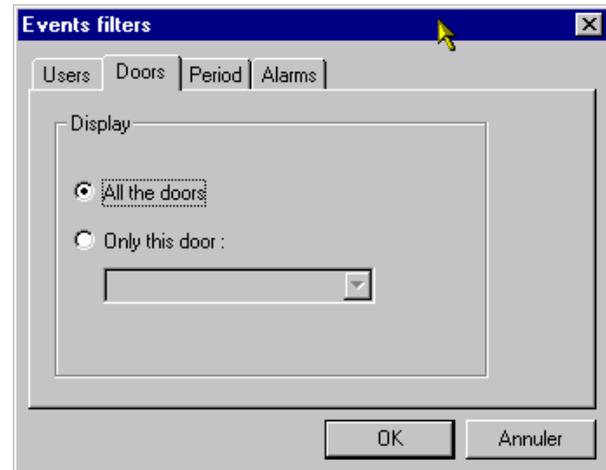
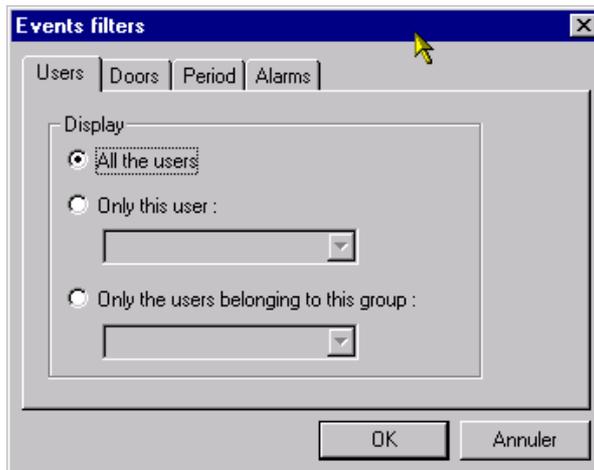


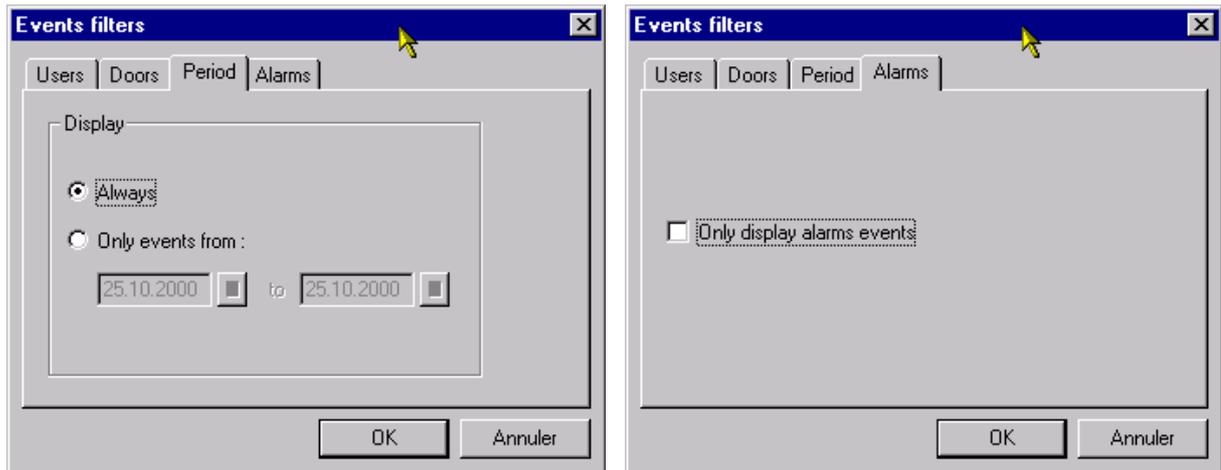
15Events.

So that the functions of this menu are not inactive, it is necessary that the window « **Events** » is active.

In the menu « **Events** » :

« **Filters** » : you can make a events filtering on the **Users**, on **Accesses**, on a **Period** or choose to show only **Alarms**.





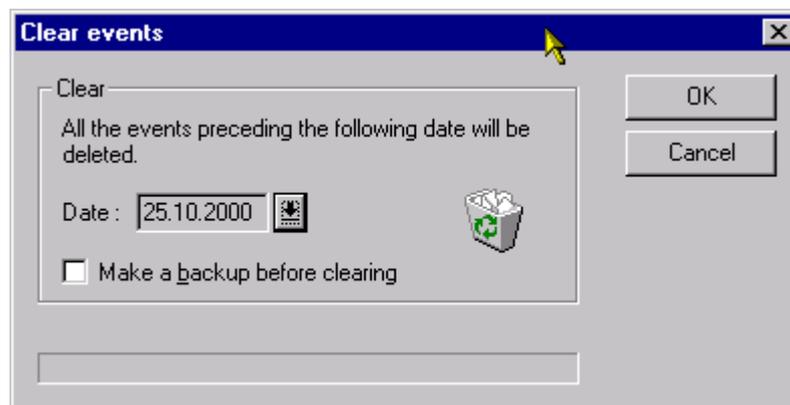
« **All Events (reset filter)** » : show all events without taking into account filters first described.

« **Refresh** » : puts back the list of events up to date.

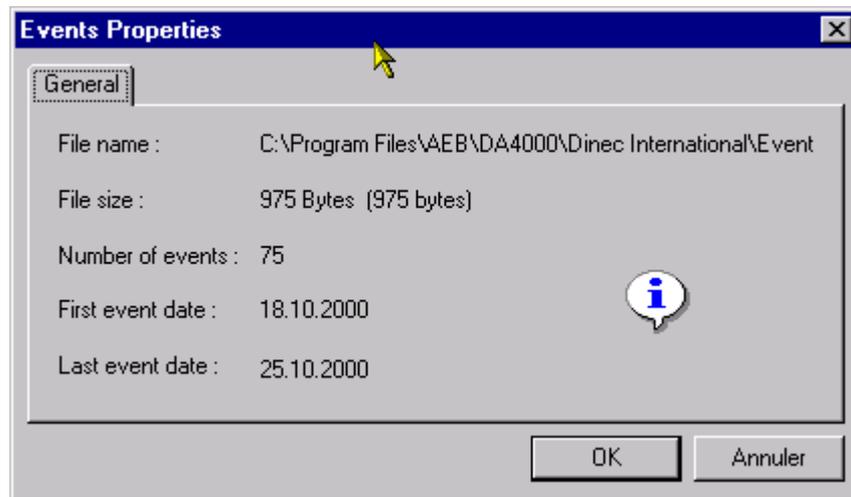
« **Clear** » : when the list of events becomes too long, two problems arise:

- 1- It is more and more difficult to read ;
- 2- It takes more and more volume on the hard disk;

To avoid these inconveniences, you can erase the events which are too old and which will not serve you any more ; it is however advised to make a protection before the definitive abolition of events :



« **Properties** » : shows the properties of the file which contains events : information on the name of the file and the way to follow, the size of the file, the number of contained events, as well as the dates of creation and from the end of recording :



16View.

In the menu « **View** » :

« **Toolbar** » : show or hide the toolbar.

« **Status bar** » : show or hide the status bar.

17Windows.

In the menu « **Windows** » :

« **Installation** » : open or close the window *Installation*.

« **Users list** » : open or close the window *Users list*.

« **Real-time events** » : open or close the window *Real-time events*.

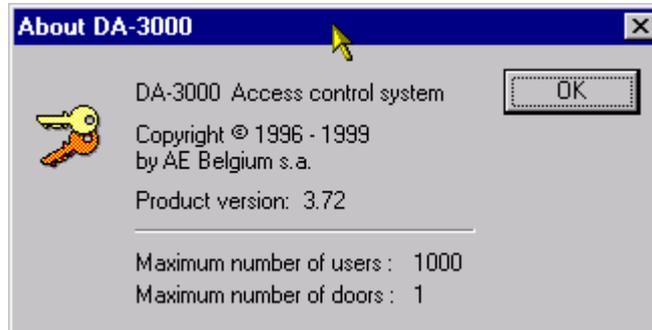
« **Events** » : open or close the window *Events*.

In this menu, you can also show the active window, because this one is marked in the list of bottom of menu.

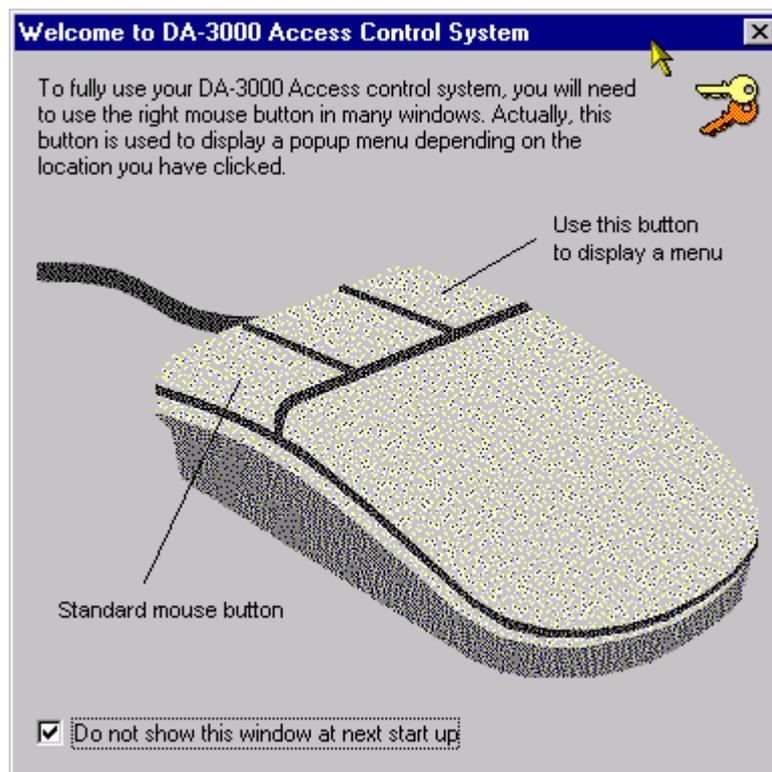
18Help.

In the « **Help** » menu :

« **About SSI 3000** » : show the version of the software :



« **Informations** » : explain functioning and the utility of the buttons of the mouse. Never forget to serve the right button because this is as useful as the left button :



For any persevering problem, contact SSI Denmark +45 70253010 or post@svane-el.dk