

# ***PR Master ver. 1.5***

Manual

### The PR Master program

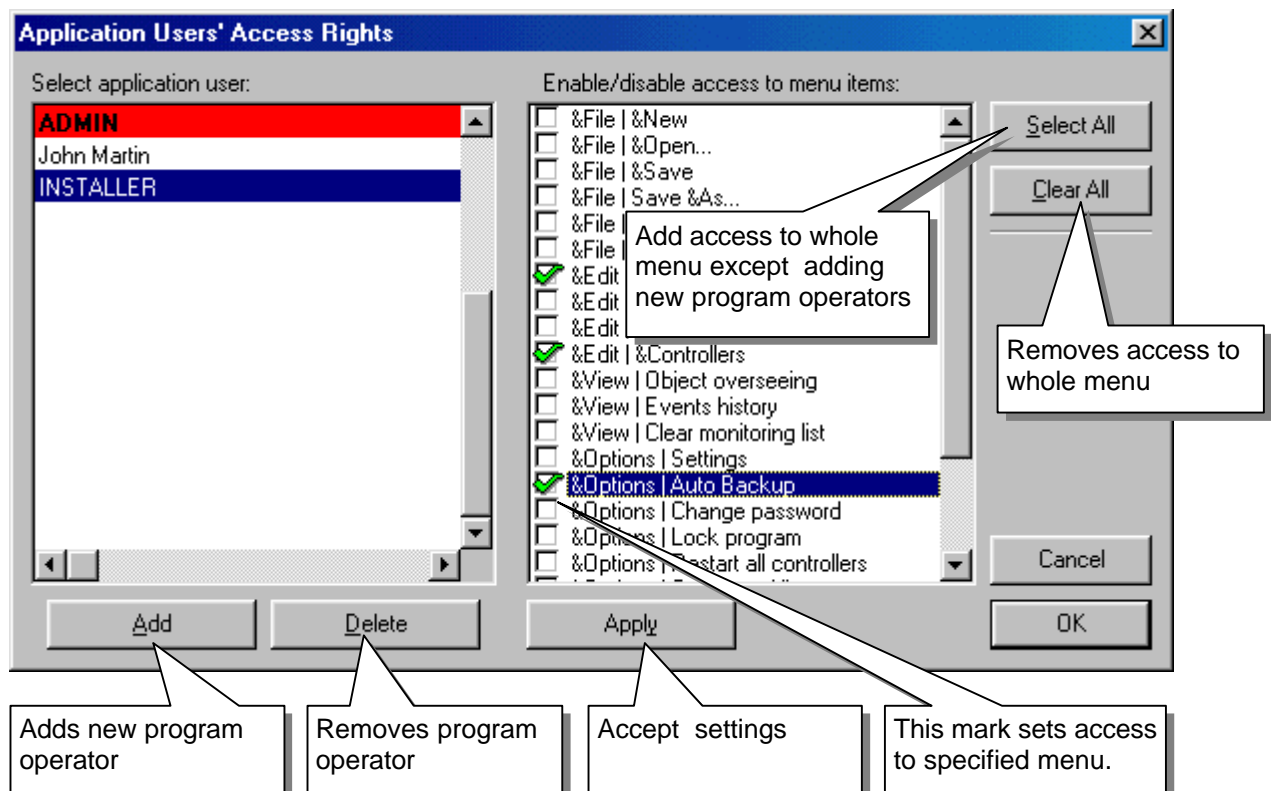
PR Master run on PC computers with Win 95/98/NT operating systems. By this program, installer can download settings to PRxx1 controllers and additionally can build ON-LINE access control system with events monitoring and access time zone feature.

### System configuration file [\*.prc]

All PR access system settings and events record during ON-LINE operation PR Master retain in disk file with extension [\*.prc]. This file is called system configuration file or system file. The events recorded during monitoring are appended to system file every time the save/exit function is invoked or can be appended automatically at pre-declared times (see SETTINGS|AUTOBACKUP function). The system configuration file has a copy with [\*.ntc] extension which can be shared by other program operators via computer network. In addition after any write operation to [\*.prc] file previous version is saved in [pr\$] file and can be used as a emergency backup in case the data base is crashed.

### Program operators

There is one predefined PR Master operator called [ADMIN]. This operator can't be removed or edit. [ADMIN] has full access to PR Master program menu. [ADMIN] can create other program operators and give them access to specified program menus. Before program starts operator have to log in with name and password. After first program installation operator must enter username [ADMIN] (without brackets) and password empty, (press ENTER). By declaring other program operators installer can restrict access to some program menus and thus protect system against unprofessional changes.

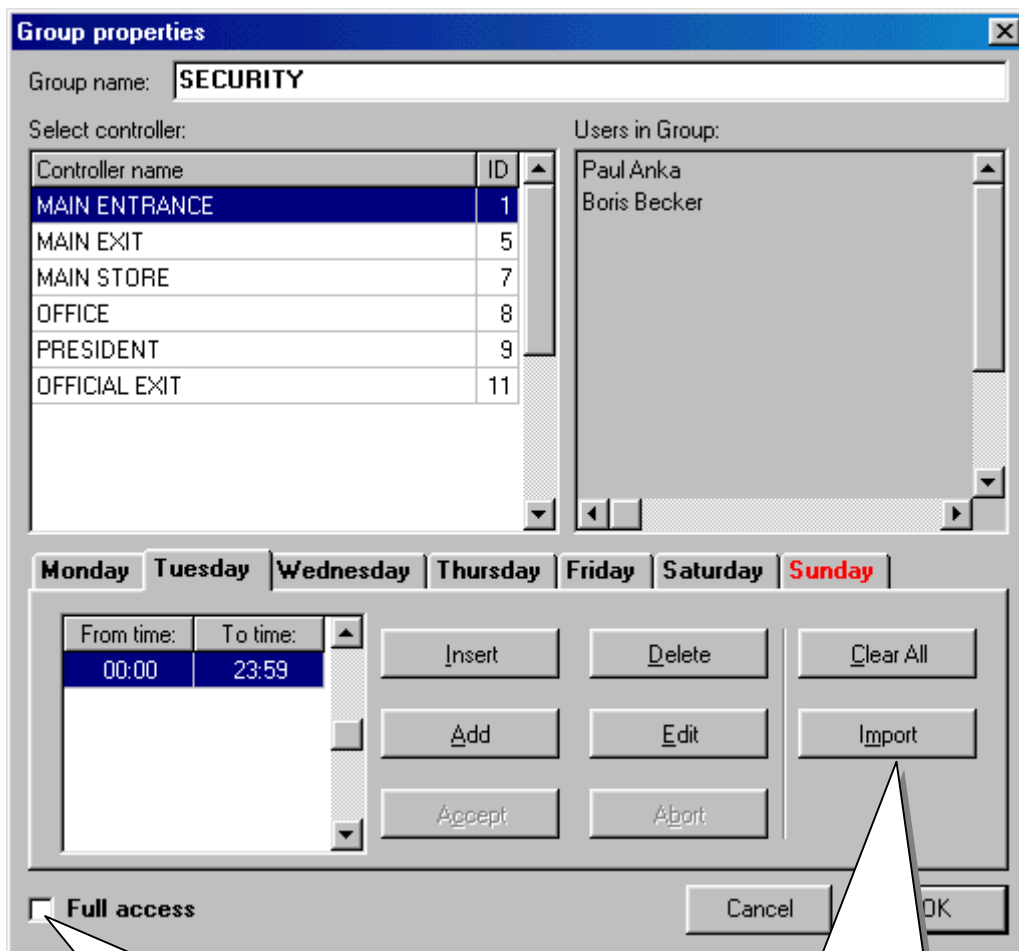


**System Users**

In PR system can be registered up to 1000 user of four types. Every user have its own ID number Users are identified by **Identifiers**. There are two types of identifiers: proximity card and PIN code. All controllers operating in one PR system have the same list of users.

User ID	User Type	Programming	Switching OPEN/CLOSED	Door opening
0	MASTER	Yes	Yes	Yes
1..49	SWITCHER	No	Yes	Yes
50..99	SWITCHER	No	Yes	No
100..999	NORMAL	No	No	Yes

Users can be divided into access **group**. There are one predefined group called **[default]**, system operator can defined up to 31 additional groups. User belongs to the same group have the same authorization for door opening. For every group on every day of week operator can declare time zones in which users will have access on particular controller. Whole day access is declared as 00:00 to 23:59. Time zones feature is only available if controllers operates under PR Master software. If communication with PR Master stops, controllers continue operation in stand alone mode with access group settings as they where before communication stops.



Switch on full access on every day on every controller for specified group no matters how time zones are set.

Imports time zones from another group

The screenshot shows a user management window with a table of users. Callouts provide the following information:

- User ID number:** Points to the 'ID' column.
- User type:** Points to the 'Type' column.
- T&A evidence number is only used when T&A reports are produced:** Points to the 'Evid. (T&A)' column.
- User group:** Points to the 'Group name' column.
- means authorization for official exit:** Points to a briefcase icon in the 'Type' column.
- Edit user properties:** Points to the 'Edit' button.
- Table can be sorted according to few methods:** Points to the 'Arrange by' options at the bottom.
- Import and export of user list to .usl file (.usl are plain text files):** Points to the 'Import' and 'Export' buttons.

ID	User Name	Type	Evid. (T&A)	Group name
0	Ringo Star	MASTER	1234	DEFAULT
1	Paul Anka	SwI		
50	Boris Becker	SwI		
100	John Martin	NOR		
101	Jane Collins	NORMAL	779123	MANAGEMENT
102	Jack McNamara	NORMAL	4108	MANAGEMENT
103	Arnold Seyer	NORMAL	1295	DESIGN
108	Elisabeth Taylor	NORMAL	417569	FIRST SHIFT
109	Roger Moore	NORMAL	3637	SECOND SHIFT

Arrange by:  ID number  Type  First name  Last name Find...

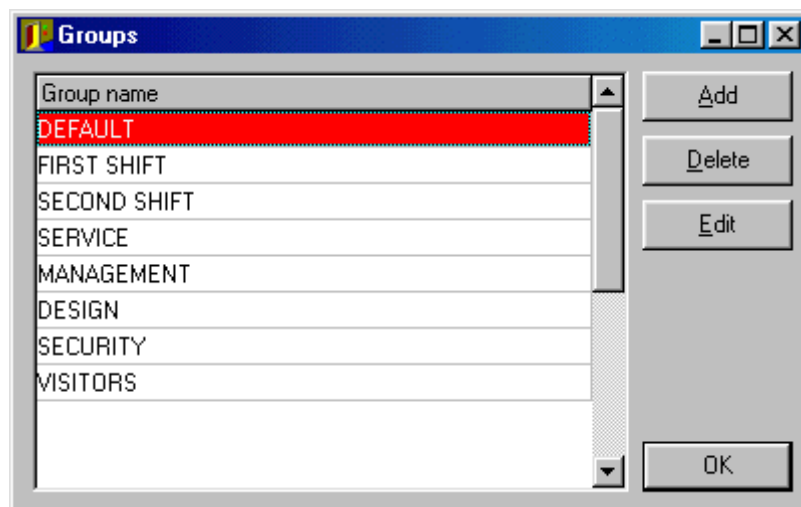
Buttons: Add, Delete, Edit, Change type, Change ID, Import, Export, OK

**Default group**

There is one predefined group in PR system. This group has ID=0 and is called [DEAFULT]. All users programmed manually into controllers memory belongs to this group. If system runs under control of PR Master users can be divided into different groups. Every group can have its own access schedules defined in one-week period.

NOTE: Generally time zones defined for group [DEAFULT] should control access for this group but if option [Door opening only in OPEN condition] is set, time zones for group [DEFAULT] also control access for any other group (for details see table below).

NOTE: Because SWITCH (BISTABLE) output repeats OPEN/CLOSED condition of the controller operator can switch ON/OFF this output through declaration of time zone for group [DEFAULT].



**Option: [Door opening only in OPEN condition]**

This is a special option which can changed some access rules in system. For details see table below:

GROUP	Option: [Door opening only in OPEN condition] is ON		Option: [Door opening only in OPEN condition] is OFF	
	CLOSED cond.	OPEN cond.	CLOSED cond.	OPEN cond.
GROUP DEFAULT ( ID = 0 )	Whole day ACCESS ON, regardless of declared time zones		ACCESS ON	ACCESS ON
OTHER GROUPS ( ID = 1..32)	ACCESS due to declared time zones		ACCESS OFF	ACCESS due to declared time zones

NOTE : No matter if option [Door opening...] is set ON or OFF time zones declared for group [DEFAULT] controls OPEN/CLOSED condition and SWITCH(BISTABLE) output. If no time zones for group default are declared PR Master doesn't change OPEN/CLOSED condition of selected controller.

**Controllers**

In PR access system can be registered up to 31 controllers. Every controller connected to PR system Communication Bus must have its own ID number from 00 to 99. Program can not communicate with controllers with the same ID numbers. ID numbers can be changed manually or remotely from PC. PR Master detect ID conflicts on Comm. Bus and signalize it with error message.

Find and add controllers to system (operation conditional)

Controller name	ID
MAIN ENTRANCE	1
MAIN EXIT	5
MAIN STORE	7
OFFICE	8
PRESIDENT	9
OFFICIAL EXIT	11

Buttons in the toolbar: Add, Add all, Delete, Edit, Change ID, Send, Compare, Restart, OPEN, CLOSE, OK

Find and add controllers to system data base (operation unconditional)

Remove controller from system

Edit controller properties

Change controller ID

RESTART controller

Switch controller to OPEN condition

Switch controller to CLOSED condition

Send configuration settings to controller

Verify contents of controller memory with data base.

Perform communication test with controller. 100% means ideal communication, result below 50% are not acceptable.

Test transmission

The results between 60..80% may be accepted but installer must be aware that some interferences on com. bus exists or there is some problem in installation hardware. In such case check com. bus terminals connection in controller. For the best results use twisted pair of wires for com. bus .

Transmission Test  
Controller ID: 7  
Controller name: ENTRANCE

Start [0%] Close

Completely lack of communication between PR Master and controller

Transmission Test  
Controller ID: 7  
Controller name: ENTRANCE

Start [80%] Close

Transmission Test  
Controller ID: 7  
Controller name: ENTRANCE

Start [100%] Close

Ideal communication between PR Master and controller

**Controllers setup**

**Controller properties**

Name: **MAIN ENTRANCE** ID: **1**

Type: Entrance

**IN1 Input** Function: Door open detector (DC) Type: NO  
Info: INFO

**IN2 Input** Function: Door opening button (DR)

Operator can declare text string which will appear after "Information" input activation/deactivation

Type of passage, only used for T&A or time attendance reports

REL2 Output Function: Repeats the CLOSED/OPEN of the reader

Options:

- Reprogramming disable
- Door opening only in OPEN condition
- Bad card timed lock-out
- AND mode for NORMAL identifiers
- AND mode for MASTER identifiers
- AND mode for SWITCHER identifiers

Information:

MODEL: **PR301**  
 VERSION: **STANDALONE**  
 REVISION: **27**  
 XTAL FREQ.: **20 MHz**

Cancel OK

**Reprogramming disabled** – after this option is set reprogramming of controller is disabled. This option can be removed only by EEPROM RESET.

**Door opening only in OPEN condition** – If option is set all users can door open only when controller stay in OPEN condition.

**Bad identifier timed lockout** - If option is set controller doesn't read card and PIN codes for three minutes after three unsuccessfully attempts of bad identifier entry.

**AND mode for NORMAL users** – NORMAL type users must enter card and PIN code for identification, no matter what sequence. (option available only in controllers with keyboard).

**AND mode for SWITCHER users** – SWITCHER type users must enter card and PIN code for identification, no matter what sequence, (option available only in controllers with keyboard).

**AND mode for MASTER user** – MASTER type user must enter card and PIN code for identification, no matter what sequence, (option available only in controllers with keyboard).

**System events monitoring**

In PR access control system events are registered only if communication with HOST computer exists. Event are presented in monitoring window.

Current program operator

Current system configuration file.

PR Master 1.5 [ADMIN] - 'ROGER S C 82-416 GOŚCISZEWO 59.prc'

Main menu

Date:	Time:	Description:	Controller:	User/Info:
01-01-10	14:22:29	Start of registration		
01-01-10	14:22:29	Switched to the OPEN		PR Master 1.5
01-01-10	14:22:30	Switched to the OPEN		PR Master 1.5
01-01-10	14:22:46	Door opened		John Martin
01-01-10	14:22:49	Door opened	MAIN ENTRANCE	Jack McNamara
01-01-10	14:22:56	Door opened	MAIN ENTRANCE	Paul Anka
01-01-10	14:23:17	<b>PREALARM</b>		
01-01-10	14:23:26	Door opened		
01-01-10	14:23:35	Door not closed		
01-01-10	14:23:40	<b>Forced entry</b>		
01-01-10	14:23:45	Information input in signalized co		
01-01-10	14:23:45	Information input returned to the normal co	MAIN EXIT	
01-01-10	14:24:09	Door opened	MAIN EXIT	Paul Anka

Monitoring window

Tools

Communication status indicators. Every controller has its own indicator. Color green means proper communication wheraes red signalize lost of communication. If indicator pulses red it means momentary lack of communication but it doesn't mean that information is lost. In case of error PR Master repeats communication few times.

Show time of last auto-backup. Auto-backup append recorded event to system file (\*.prc)

Status bar:

- COM1 - communication port,
- Events monitoring on,
- Events monitoring off,
- Events auto-backup time.

Every time listed in this window PR Master automatically append recorded events to system file (\*.prc)

Automatic storage

Enable automatic event storage

Store events at specified hours:

Enter new hour: 18:00

00:00  
06:00  
09:00  
12:00  
15:00  
18:00

<< Add

>> Remove

Close



**User properties**

The 'User properties' dialog box contains the following fields and options:

- Type: **NORMAL** ID: **102**
- First Name: **Jack**
- Last Name: **McNamara**
- Evidence no. (T&A): **4108**
- Transponder Code: **0411B05272**
- Keyboard Code: **4108**
- Group name: **DEFAULT**
- Authorized to official exits

Buttons: **Cancel**, **OK**

Callouts:

- T&A number, used only when T&A report is generated (points to Evidence no. (T&A))
- Card code (may be entered manually or read on selected transponder) (points to Transponder Code)
- Press this button and than read card on selected controller (points to the button next to Transponder Code)
- User PIN code (points to Keyboard Code)
- User group (points to Group name)
- Authorization for official exit, when this option is set ON , system will accept official exits of user. (points to the 'Authorized to official exits' checkbox)

The 'Transponder code reading' dialog box contains the following table and buttons:

Controller name	ID
MAIN ENTRANCE	1
MAIN EXIT	5
MAIN STORE	7
OFFICE	8
PRESIDENT	9
OFFICIAL EXIT	11

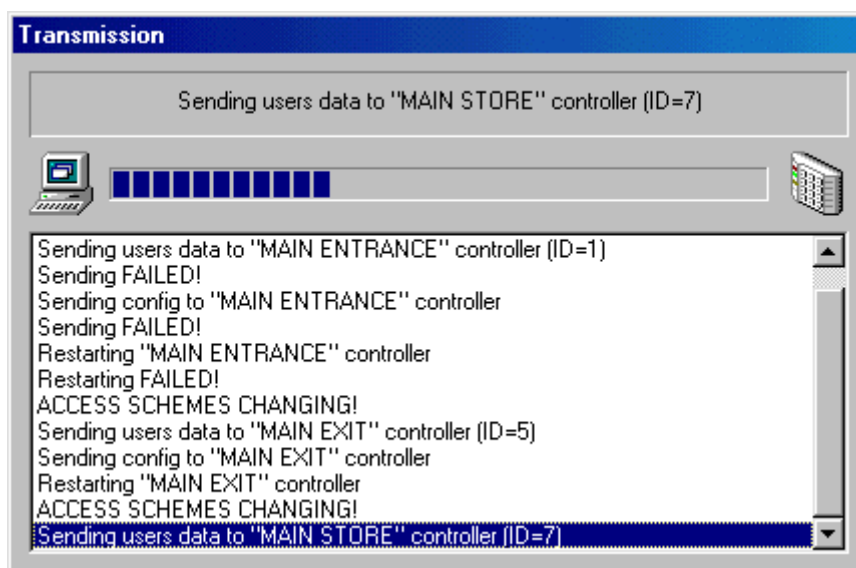
Buttons: **Read**, **Cancel**

Callout:

- Press READ button than read card on selected controller. Card code will appear automatically. (points to the 'Read' button)



### Sending configuration settings to controllers



Controllers are equipped with internal memory banks which store configuration settings of controller and users codes. Without communication with system Host (PR Master or CPR-32 control panel) controllers can operate in stand alone mode. In this mode time zones and events recording doesn't function. Before system will start first time every controller must be download with settings. There are few other situation where configuration settings in controller must be updated:

1. After edition of user properties
2. After edition of group
3. After controller settings changes

NOTE : Sending configuration is useless if:

- changes refer only to text strings,
- if time zones settings where changed.

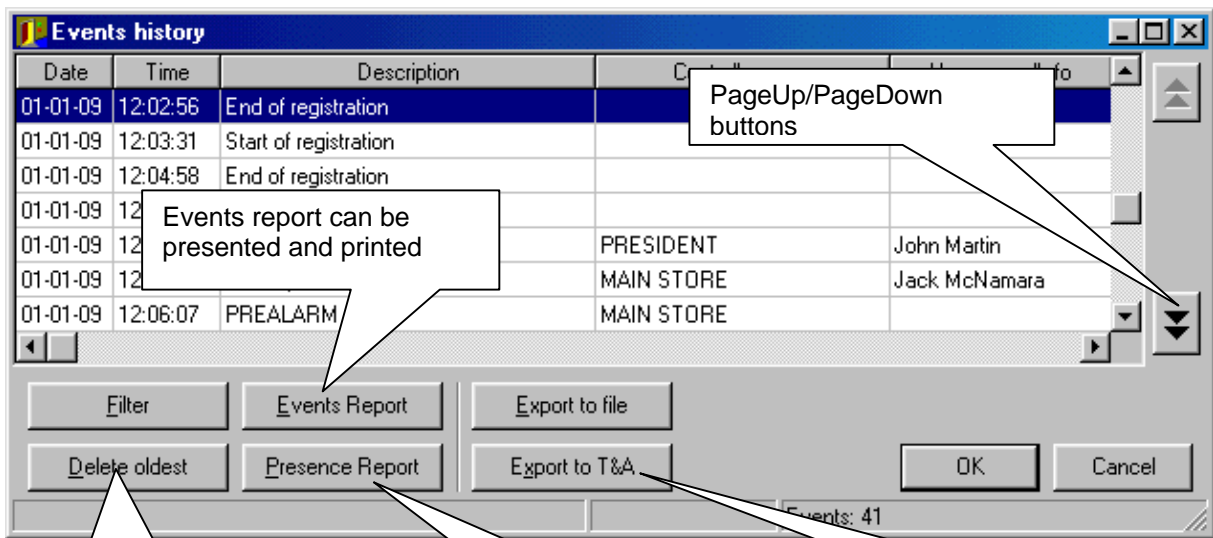
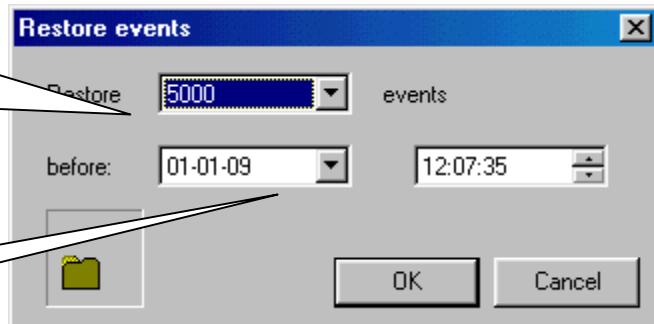
If during configuration transmission error occur controller after 20 sec. will RESTART automatically and can be download again. Controllers can be download individually (SEND command) or all controllers can be download automatically (OBJECT|CONFIGURE ALL command).

**Events history**

All events actually received from system are presented in monitoring window. At declared time of day and after SAVE command PR Master append received events to currant configuration file (\*.prc). Events stored in configuration file can be restored by VIEW|EVENTS HISTORY command. After this command PR Master load hundred (or more) events. The remains events are automatically load after pressing PageUp/PageDown buttons.

Before events are shown operator must declare how many events have to be loaded from \*.prc file, use numbers below 1000. Numbers above 1000 will slow your computer.

Only events before declared date will be load



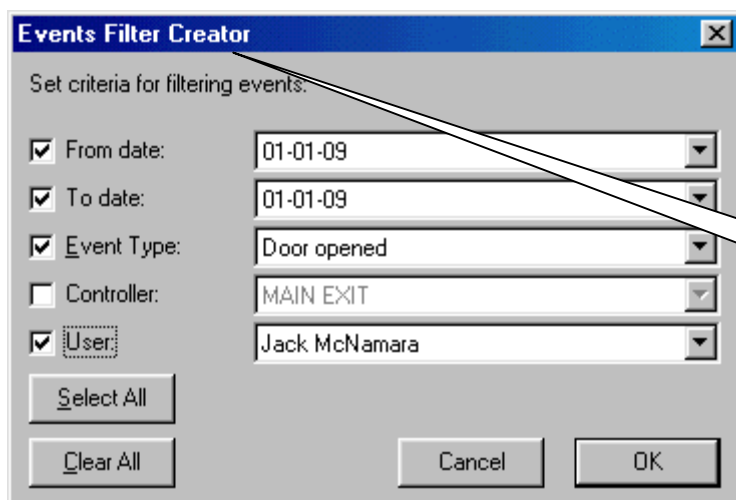
PageUp/PageDown buttons

Events report can be presented and printed

Only the oldest events can be deleted.

A user presence in building can be calculate

A Time and Attendance report can be produce.



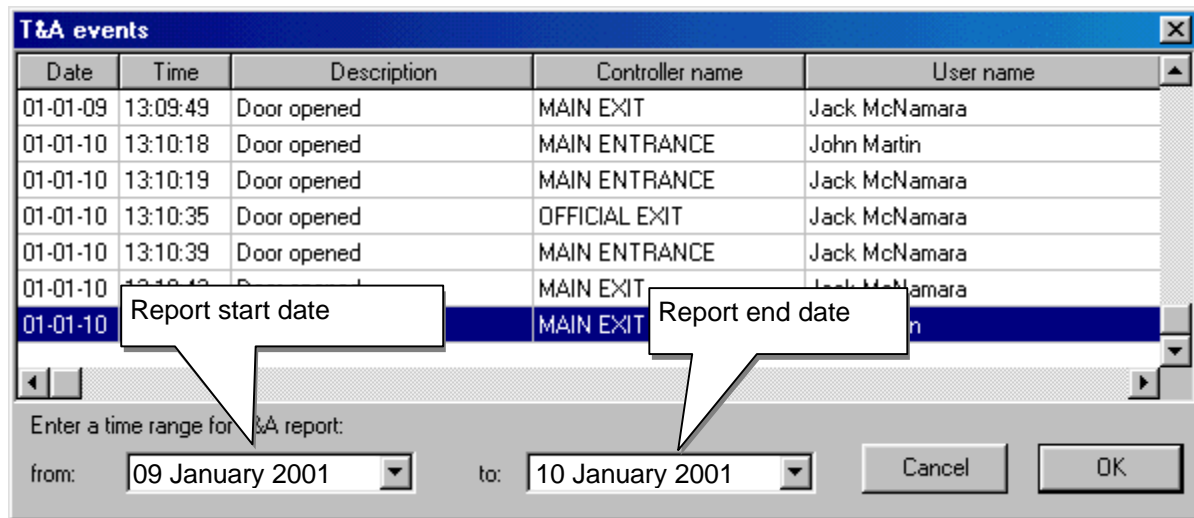
Reports can be produced with optional filters

**Time and attendance feature**

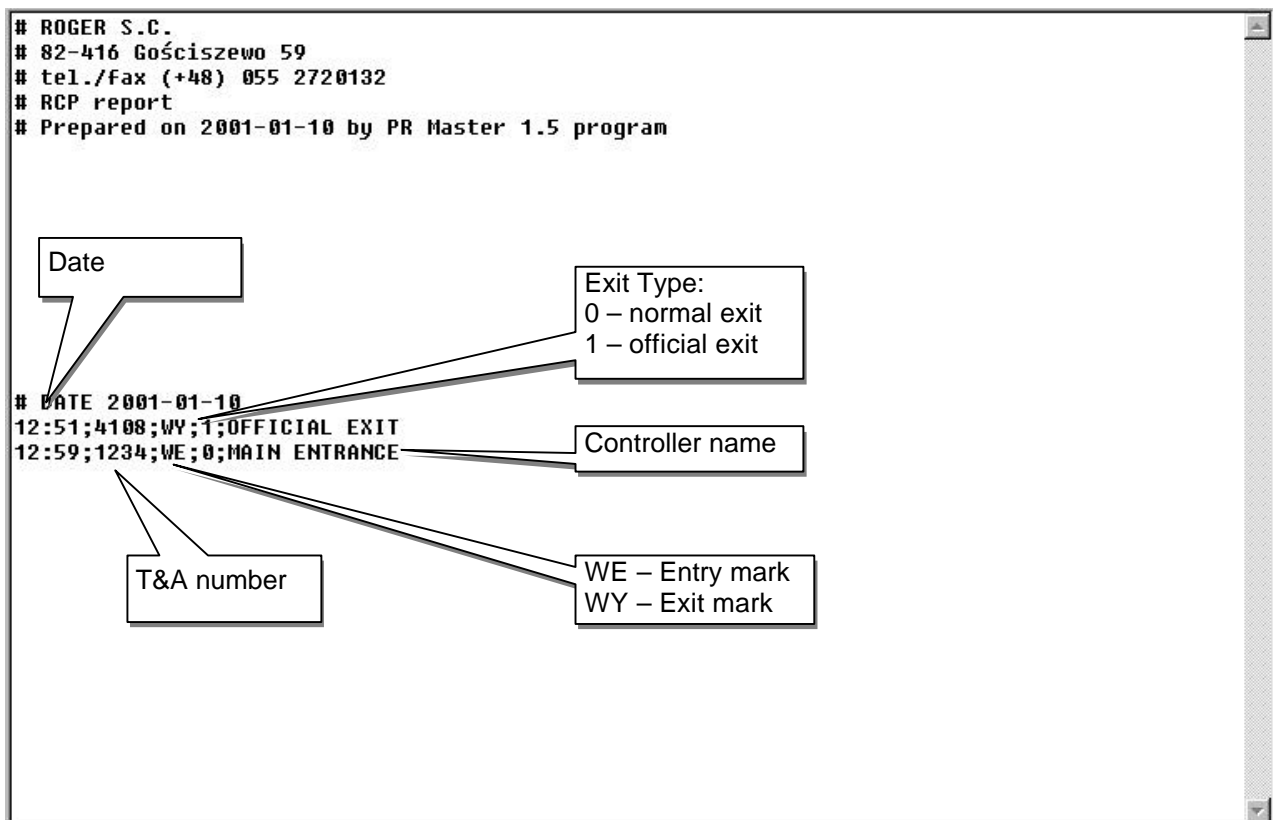
PR Master doesn't have time and attendance (T&A) feature but it can export report to such programs or modules. For many investors such feature is not necessary but simplified method of time attendance account is satisfactory. PR Master can figure the total time between entry and exit into building of every system user (see [Presence report] button in Event report window). To use this function installer must declare ENTRY and EXIT controllers.

**Official exit**

PR system can register official exit of individual person from building. Such kind of exit belongs to total working hour count. If official exit have to be registered operator must select controller and set them [Official exit] type. Such controller works as any other controller in system except in T&A report exit through this one is marked as [Official] but only for those person who are authorized for such feature.



**Time and Attendance report format**



**Program settings**

Before any communication with controllers will run operator must declare com port of the computer.

