

Partizan Access Control Management

User Manual

Version 2.0.0, 14 August 2015





Abstract

This document is the Software User Manual (SUM) for the Partizan Access Control Management project and was made according to the software engineering standard described in ISO/IEC JTC 1/SC 7. The Software User Manual (SUM) instructs how to install and use the Partizan ACM software.



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Chapter 1 Introduction

1.1 *Intended readership*

This document covers the use for the following users of the Partizan ACM system:

- the system administrator
- the project administrators
- the application providers
- the resource providers
- the programmers

1.2 *Applicability*

This Software User Manual (SUM) applies to the Partizan Access Control Management version 2.0.

1.3 *Purpose*

The purpose of the SUM is to assist the user in installing and using the Partizan ACM software.

1.4 *How to use this document*

- Chapter 2 gives an overview of the Partizan ACM software
- Chapter 3 contains tutorials for common tasks that enable users to get started quickly



- Chapter 4 gives a reference of the complete Partizan ACM software
- Appendix A includes a list of all server states

1.5 Problem reporting

For all problems please contact our support:

E-mail: support@partizan-cctv.com

Skype: **partizan-support**

Tel: +44 207 048-32-05.



Chapter 2 Overview

This software is created for Partizan PAC-XX.NET/RS device management. This application can provide:

- Manage device parameters;
- Control device parameters;
- Users management;
- Time attendance;
- Patrol mode;
- Alarm and record reports;
- Cameras and DVRs management;
- Interactive map.



Chapter 3 Installation

3.1 Installing the software

3.1.1 System requirements

- CPU Pentium II 800M
- DDR 1Gb
- Operating systems:
 - Windows 98
 - Windows XP
 - Windows Vista
 - Windows 7
 - Windows 8
 - Windows 2003 Server and above

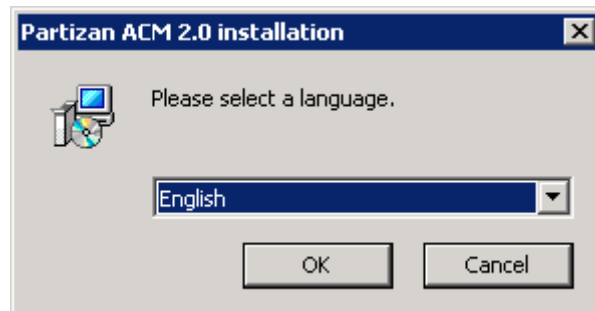
3.1.2 Installing Java SE Runtime Environment version 7 or above

If Partizan ACM will be used on one workstation this step can be skipped, otherwise Java SE Runtime Environment must be installed at PC. Please visit

<http://www.oracle.com/technetwork/java/javase/downloads/jre7-downloads-1880261.html> and download software according to operating system installed at PC. After the download is completed, install the software using the instructions provided by the installer.

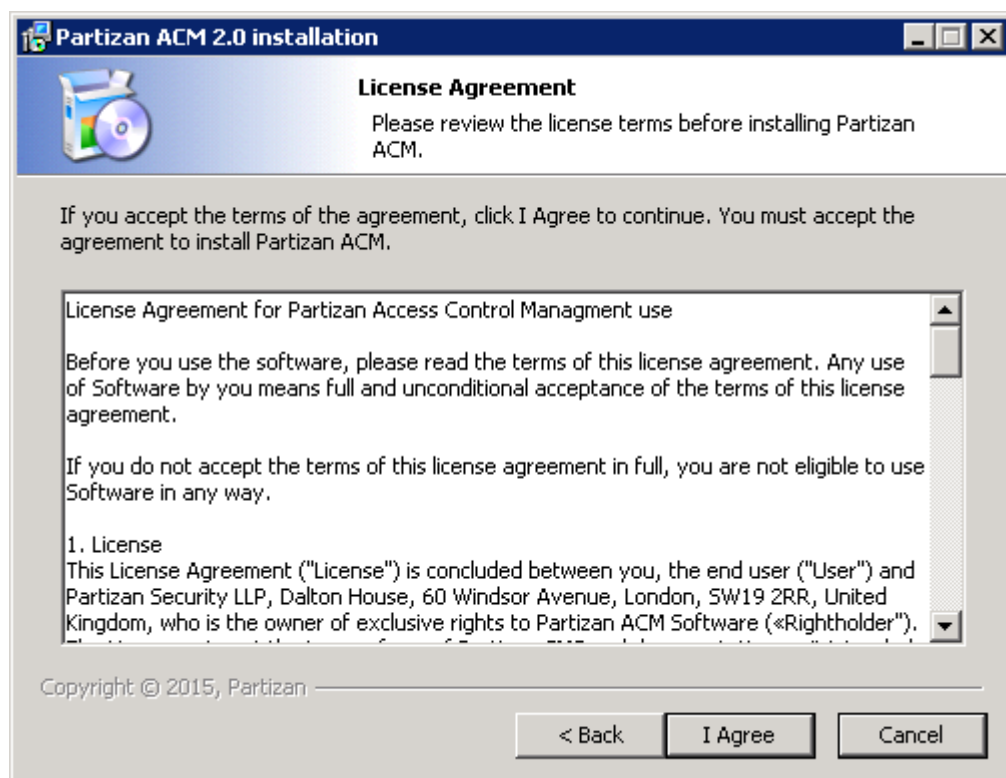
3.1.3 Partizan ACM 2.0 Installation

- Please run Partizan ACM.exe and chose installation language and press OK (Pic. 3.1)



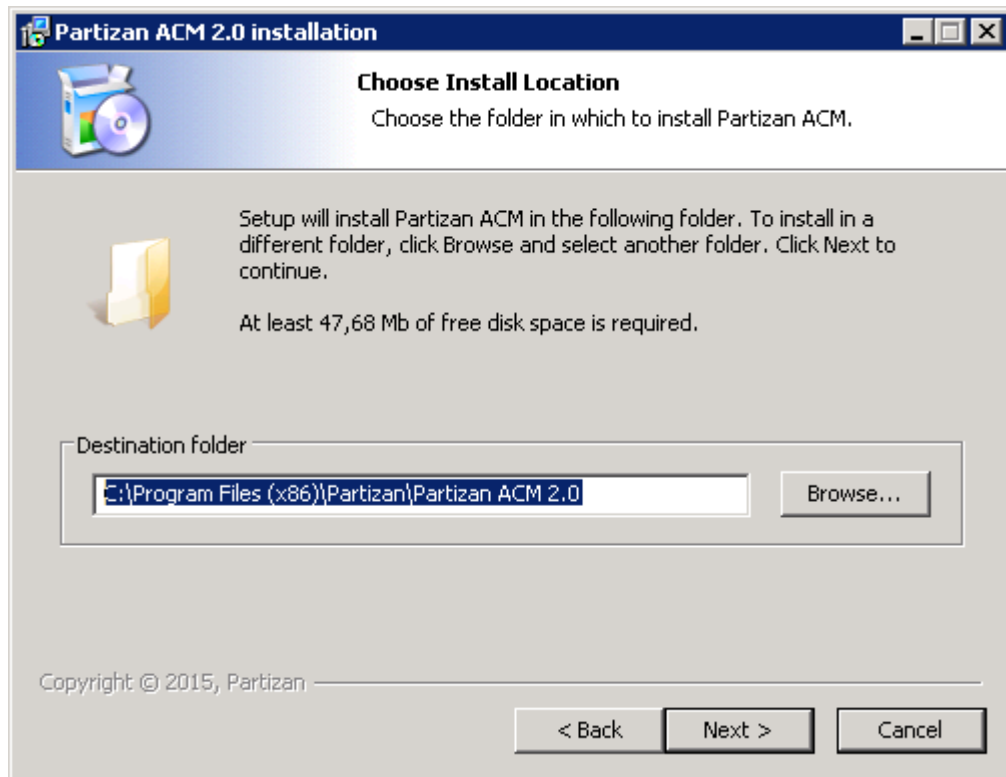
Pic. 3.1 Language selection

- Please review the license terms and Click “I agree” if you accept the terms of the agreement (Pic. 3.2)



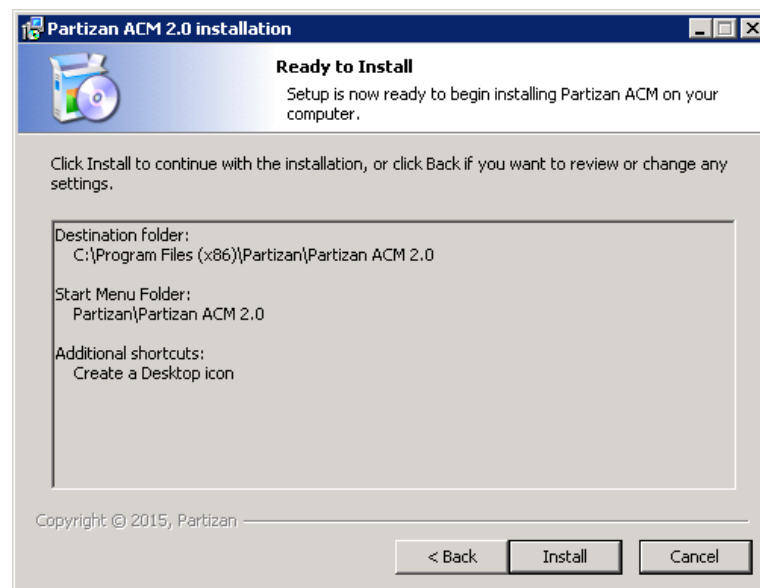
Pic. 3.2 License Agreement

- Please choose installation path. Default path is C:\Program Files (x86)\Partizan\Partizan ACM 2.0 (Pic. 3.3) and click “Next”



Pic. 3.3 Installation folder

- Please click "Install" to continue Installation (Pic 3.4)



Pic. 3.4 Ready to install



- Please click “Finish” to complete installation (Pic. 3.5)

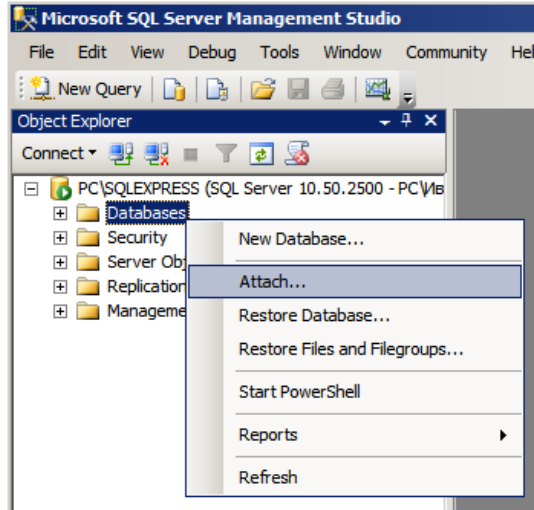


Pic 3.5 Completing the Partizan ACM Setup wizard

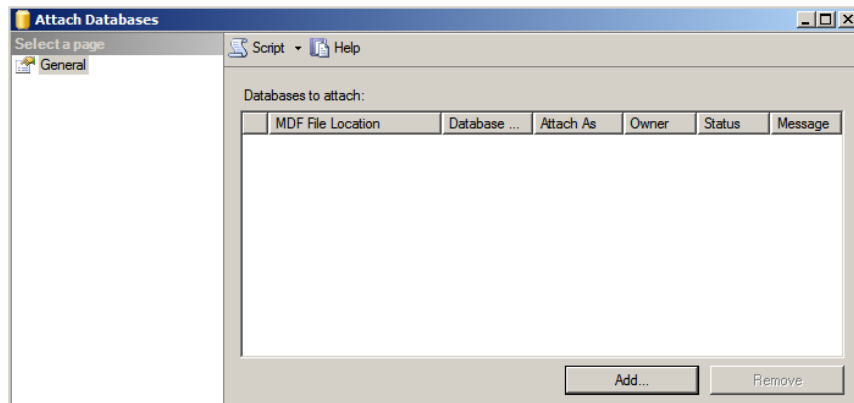
3.2 Installing Database

If you will be using MS Access, then this step can be ignored. Otherwise it is necessary to install Microsoft SQL Server. After Microsoft SQL Server installation, start up Microsoft SQL Server Management Studio.

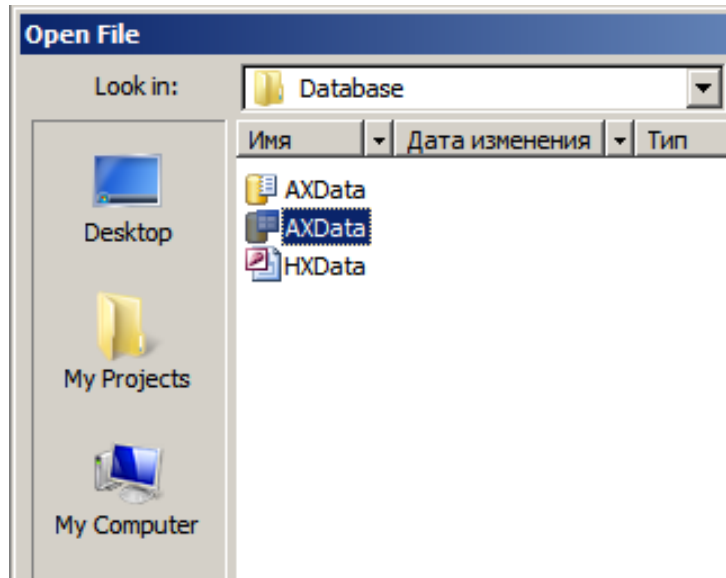
- Select by clicking of right key mouse button Databases->Attach (Pic 3.6)
- Then Click “Add...” and choose installation path, default value is C:\Program Files\Partizan\Partizan ACM 2.0\Database\AXData.mdf and Click “OK” (Pic. 3.7 – Pic 3.9)



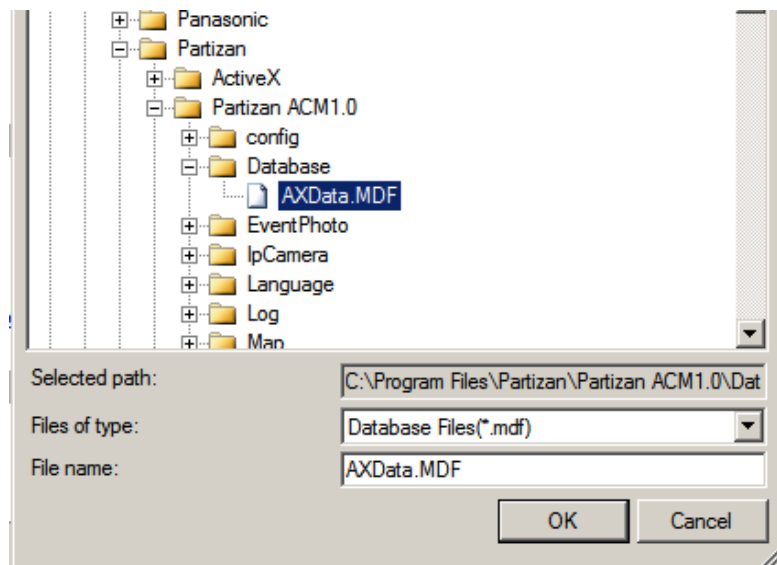
Pic. 3.6



Pic. 3.7



Pic. 3.8



Pic. 3.9

3.3 Data transfer between DB

In the case, if mdf-file was used as DB and when it became necessary to transfer data to Microsoft SQL Server, you can use program DataMoveToolNew (default installation path is C:\Program Files\Partizan\Partizan ACM\DataMoveTool) for data transfer.

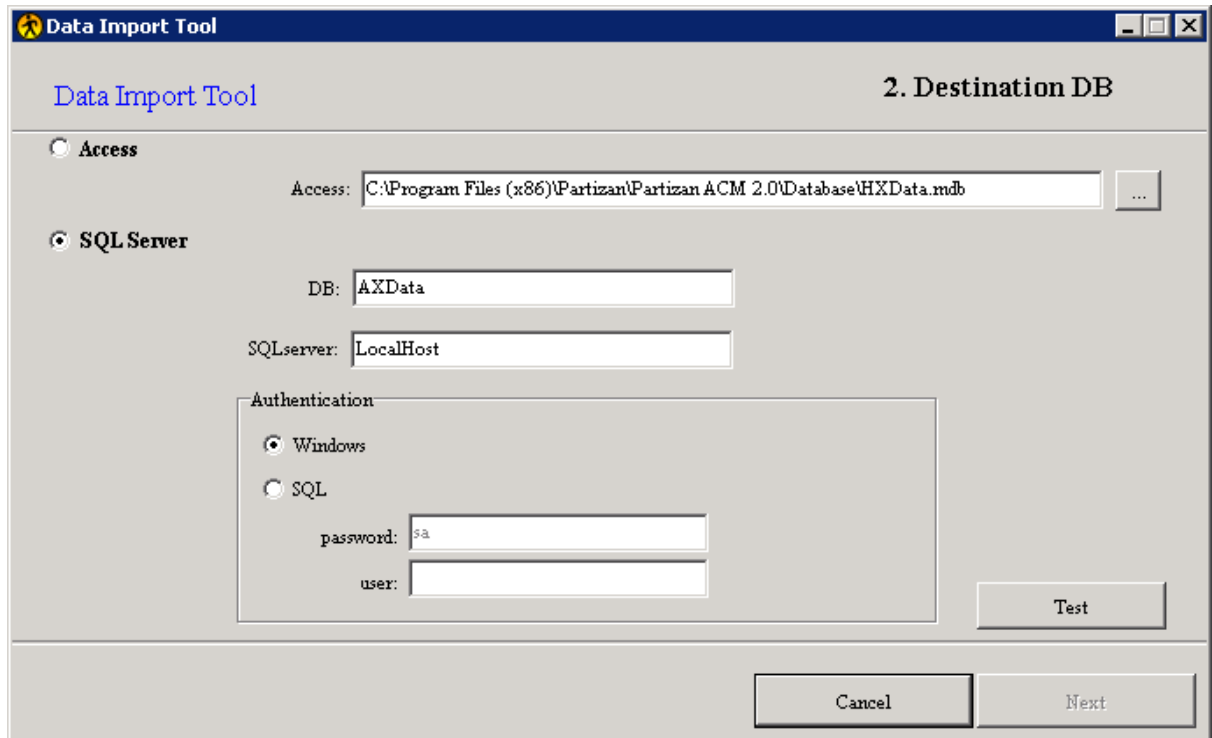


- Please choose by using checkbox initial DB, data from which DB will be copied and click “Next”(Pic 3.10).

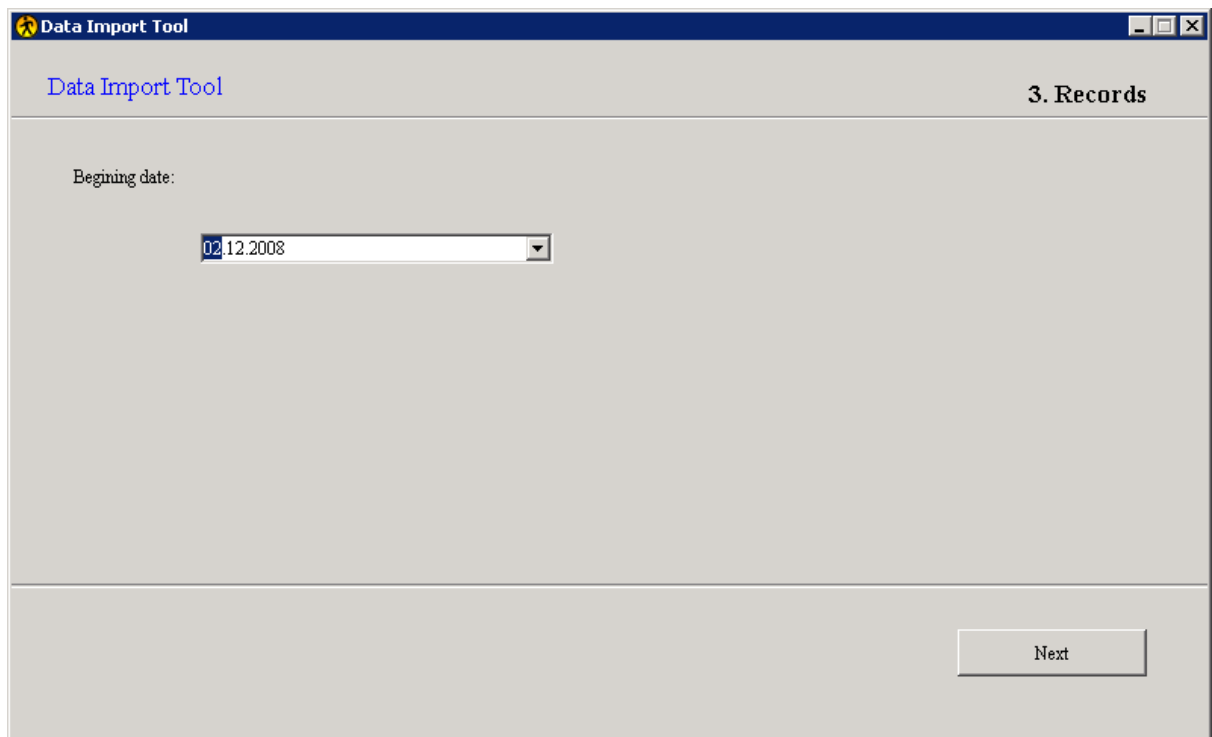
The screenshot shows a window titled "Data Import Tool" with a sub-header "1.Initial DB". There are two radio buttons: "Access" (selected) and "SQL Server". Under "Access", there is a text box for "DB file:" containing the path "C:\Program Files (x86)\Partizan\Partizan ACM 2.0\Database\HXData.mdb" and a browse button "...". Under "SQL Server", there are text boxes for "DB:" (containing "AXData") and "SQL server:" (containing "LocalHost"). An "Authentication" section contains two radio buttons: "Windows" (selected) and "SQL+windows". Below these are text boxes for "password:" (containing "sa") and "user:". There are "Test" and "Next" buttons at the bottom right.

Pic 3.10 Choosing initial DB

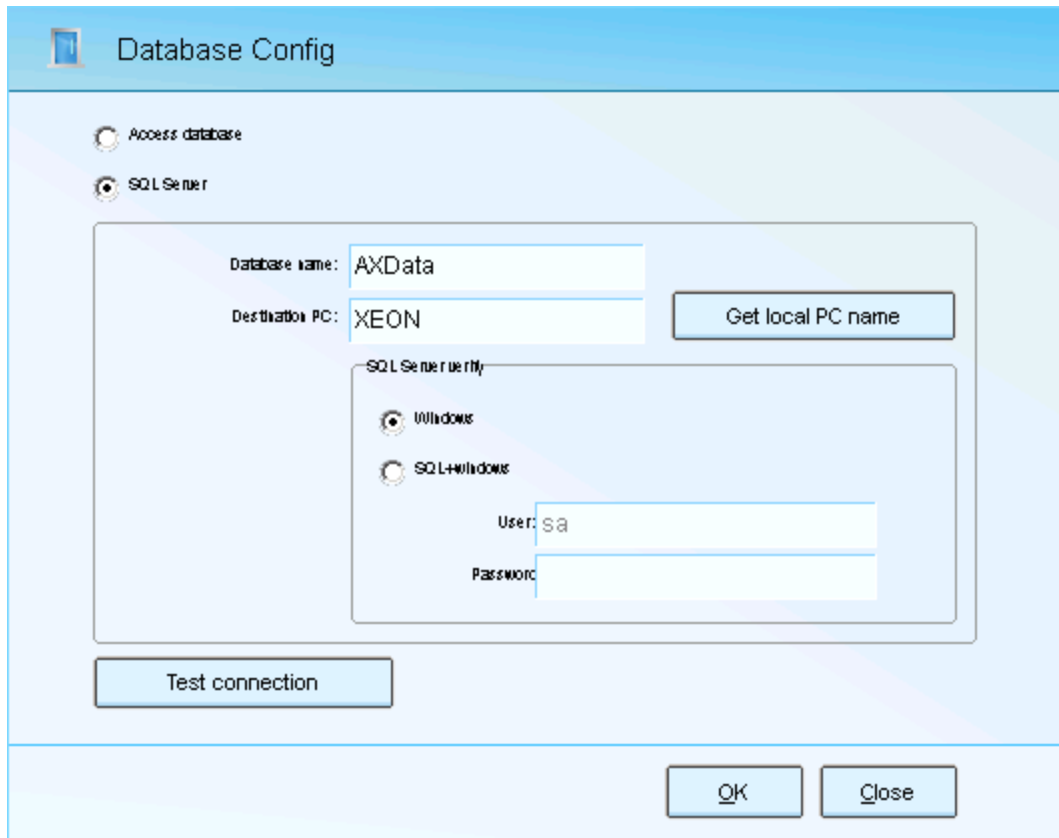
- Please choose by using checkbox DB where data will be copied and press “Next” (Pic 3.11)
- Please choose beginning date of records to be imported and click “Next” and after that click “Start Import” (Pic 3.12)
- After import was finished please choose DB by using checkbox that will be used in software. Go to System-Database Config (Pic 3.13)



Pic 3.11 Choosing destination DB



Pic 3.12 Choosing beginning date of records



Pic 3.13 Database config

3.4 Partizan ACM server configuration

If Partizan ACM will be used on two or more workstations, please go to Partizan ACM server configuration web page and configure it. Otherwise, this step can be skipped.

- Please run server.bat (default installation path is C:\Program Files(x86)\Partizan \Partizan ACM 2.0\bin\server.bat) and open link <http://localhost:8088> in any browser (Port can be later changed in file config.ini).
- Please sign in to the web server. Default user is admin and password is also admin (Pic 3.14).
- There you can change default language, see controllers state and manage them (Pic 3.15)



localhost:8088/#!login

Please login to access the application. (admin/admin)

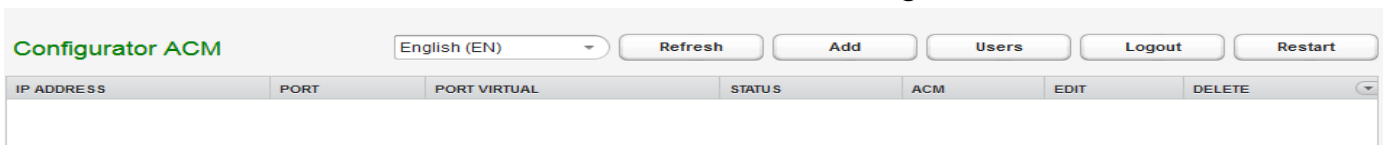
User: *

Your Login (eg. admin)

Password: *

Login

Pic 3.14 Web server log in



Pic. 3.15 Server parameters

- Please click Add button for adding controller to the software (Pic. 3.16) After controller was successfully added to the server application, you can use controllers in Partizan ACM software, now instead of controller IP and Port device will be added by PC IP and virtual port

Add new controller

IP address

10.0.0.1

Port

8000

Virtual port for ACM

28000

Add Close

3.5 Uninstalling the software

All the applications can be easily uninstalled by using uninstall.exe.

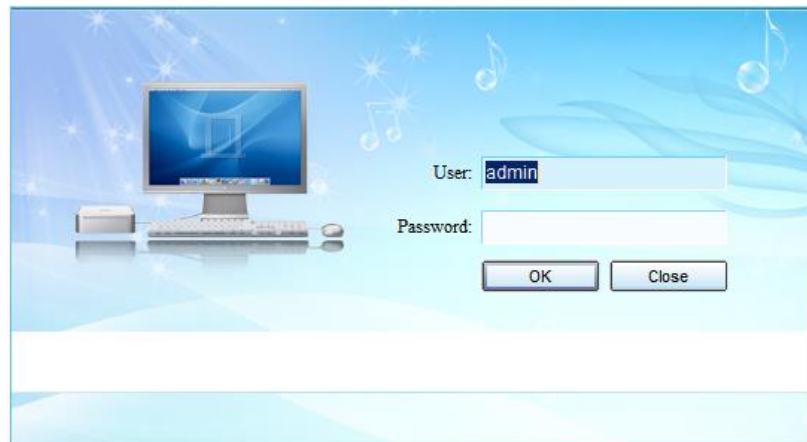


Chapter 4 Tutorial

In this chapter will be discussed all possibilities and options of Partizan ACM software

4.1 Running software

Please run Partizan ACM.exe file. Following window will appear (Pic. 4.1)



Pic. 4.1 Software authorization

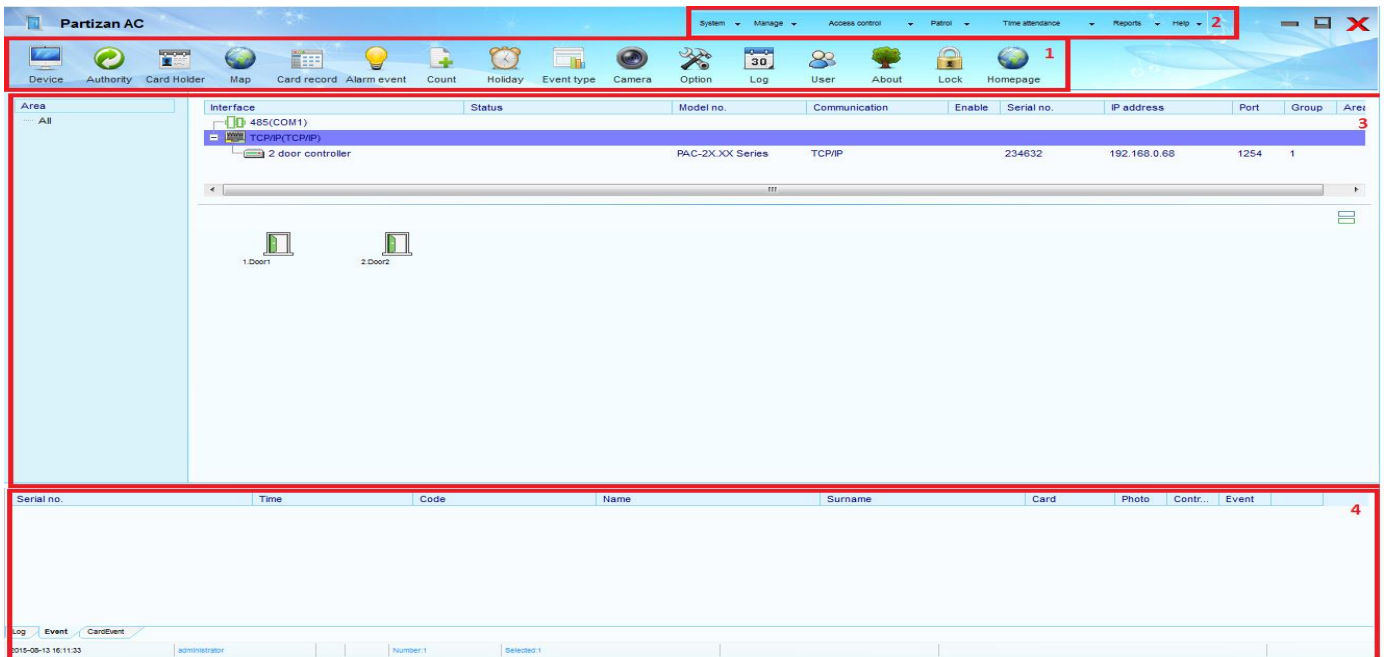
While software was installed default user **admin** without password was created. If the need arises you can change password or create new user in User rights management.

There are four functional areas in the software (Pic 4.2):

1. Main menu



2. Side menu, options are grouped according to similar tasks
3. Active tab (on default it is the «Device» tab)



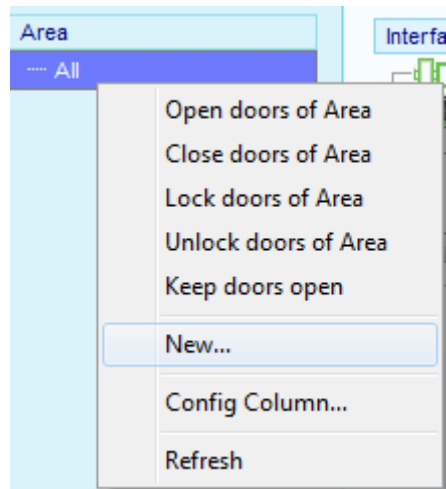
4. Logs, events, photo identification window.

Pic. 4.2 Partizan ACM software

4.2 Device Tab

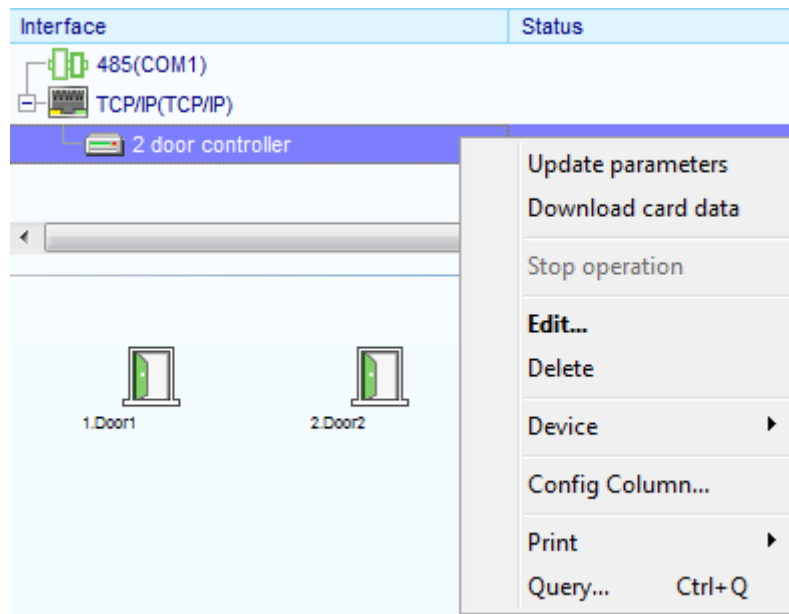
This tab is designed for adding and configuring controller's parameters settings. It consists of the following functional blocks:

- *Area*. This block is designed to group controllers. Area "All" was created on default. Following operations can be carried out by opening of context menu using right mouse button (Pic. 4.3)



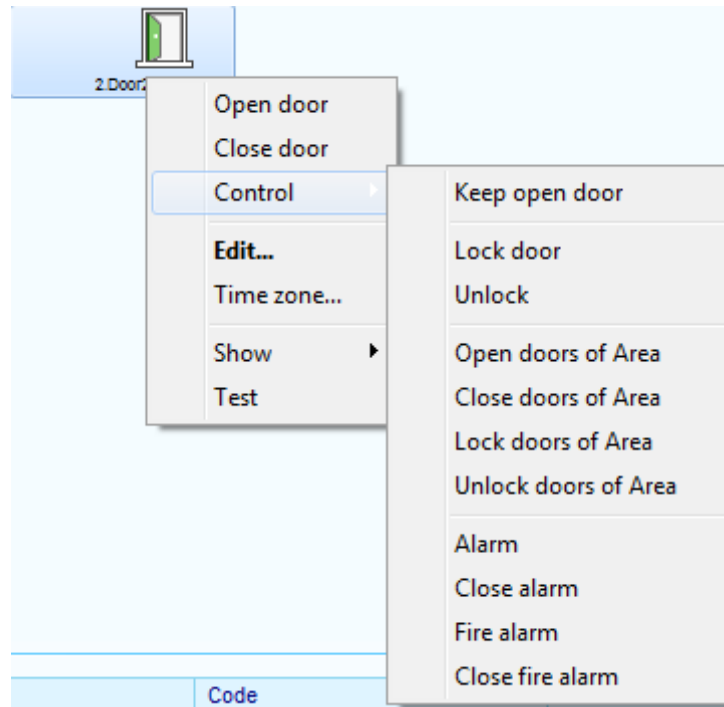
Pic 4.3 Area block

- *Adding/editing controller's parameters.* This block is designed for adding the controllers and their settings to software (Pic. 4.4)



Pic 4.4 Controllers adding

- *Adding/editing doors parameters).* This block is designed for doors settings management and control (Pic 4.5.)



Pic 4.5 Doors management

4.2.1 Controllers adding

There are 2 options of equipment`s connection:

- RS-485. For this option you should use converter RS-485/RS-232. When adding of equipment you should select COM-port to which converter is connected;
- TCP IP. For this operation mode it is necessary that PC and controller were in one subnet. Default network settings of controller are displayed at controller`s sticker. Changing of IP-address can be made via Web (Pic. 4.5). You should enter following data for access to the device:
 - Login: **admin**
 - Password: **888888**



MAC:	00:04:A3:E5:00:44
Name:	2DOORBOXCONTROL
IP Address:	192.168.0.68
Port:	1254
Gateway:	192.168.0.1
Subnet Mask:	255.255.255.0

Save

Pic. 4.5 Setting network parameters via Web-interface

For controller adding you should open context menu by right mouse button and select item “New controller” or use the hotkeys combination “Ctrl+Alt+A” at functional block *Adding/editing of controller’s parameters*. You should specify following information (Pic. 4.6):

- *Name* – controllers name in system
- *Serial No* – controllers serial number, displayed on sticker
- *Model No* – controllers model
- Select the option of connection to controller *RS-485* or *TCP/IP* by using checkbox. If *TCP/IP* is selected, you need to fill the field *IP address* when static IP address is used or *Domain* field if dynamic IP is used and specify port for controller access (on default 8000). If *RS-485* is selected, you should select COM port;
- *Area* – used for controllers grouping;



- If the controller was added successfully button “More...” becomes active, which allows to set controller`s advanced options (Pic. 4.7):
 - *Anti-pass back zone.* It is used for controllers` grouping into anti-pass back mode
 - *Alarm and fire alarm time.* Numerical value in seconds for alarm duration setting (99 means no limits);
 - *Interlock.* Option allows to group read points of two or four-door controllers into interlock. At interlock mode doors are working under following algorithm: in the case, when one of the doors is open, readers and exit buttons are locked. If first door is closed, the second transfer to regular operation mode. Door sensors must be used for correct operation of this mode
 - *Alarm password.* If this code (from 4 to 6 digits) will be entered, controller will generate an event “door alarm”. To enter the code reader with keypad is required.

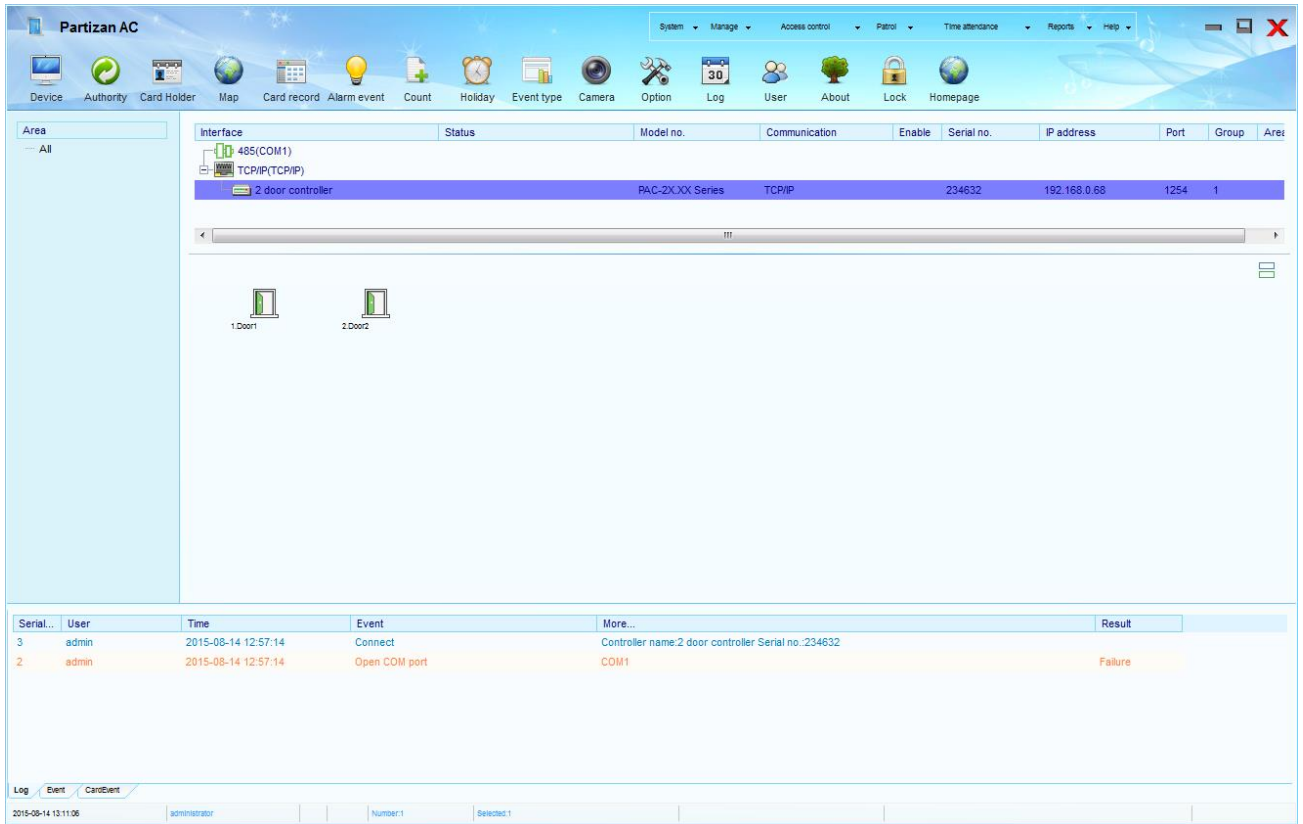
A screenshot of a software interface titled "Edit controller". The window has a light blue header with a small icon and the title text. Below the header, there are several input fields: "Name" (empty), "Serial no." (empty), and "Model no." (a dropdown menu showing "PAC-1X.XX/PAM-1X.XX Series"). Below these are two radio buttons: "TCP/IP" (selected) and "485" (unselected). A large rectangular box contains "IP Address:" with the value "192.168.0.100" and "Port:" with the value "8000". Below this box is a "Domain:" label followed by an empty text field. Further down is a "Disable" checkbox (unchecked) and an "Area:" dropdown menu (empty). To the right of the "Area:" dropdown is a "More..." button. At the bottom of the window are two buttons: "OK" and "Close".

Pic. 4.6 Adding the controller

A screenshot of a software dialog box titled "Advanced options". The dialog has a light blue header bar with a small icon on the left. Below the header, there are several input fields and checkboxes. The "Anti pass back zone" field contains the number "1". The "Alarm time" field contains "10" and has a note "(1-65535) 99 means no limitation" to its right. The "Fire alarm time" field contains "99" and also has the same note to its right. Below these are two checkboxes: "Interlock 1-2 door" and "Interlock 3-4 door", both of which are currently unchecked. At the bottom, there is an "Alarm password:" label followed by an empty text input field. At the very bottom of the dialog are two buttons: "OK" and "Close".

Pic. 4.7 Controller's advanced options

If controller was added successfully, door icons will be green, otherwise they will be gray. In events log there will be event *Connect* with additional information about controller (Pic. 4.8).



Pic 4.8 Added controller

4.2.2 Doors settings

After adding the controllers you should set door parameters. To do this you should open context menu and select menu item “Edit...” (Pic. 4.8).

A screenshot of a software interface titled "Edit door parameters". The dialog box has a light blue header and a white body. It contains several input fields and checkboxes. The "Name" field is set to "Door1". The "Door open time(S):" field is set to "5", with a note "(1-65535)99 No limitation" to its right. The "Open overtime(S):" field is set to "5", with a note "1-255" to its right. The "Multi-person:" field is set to "0". To the right of this field is a dropdown menu currently showing "Enter and Exit". Below these fields are three checkboxes: "Alarm if door is open overtime" (unchecked), "Double direction test" (checked), and "Attend time attendance" (checked). A section titled "Alarm output" is separated by a horizontal line. It contains an "Alarm kept time:" field set to "10", with a note "(1-65535)99 means no limitation" to its right. Below this are four checkboxes under the heading "Alarm items": "Door alarm" (unchecked), "Door is open overtime" (unchecked), "Invalid card" (unchecked), and "Swipe card during invalid time" (unchecked). At the bottom right of the dialog are two buttons: "OK" and "Close".

Pic. 4.8 Edit door parameters

- *Name*
- *Door open time*. The value can be in the range from 1 to 65535 seconds. 99 means no limitation
- *Door overtime*. Time parameter for person to go through door. It can take values in the range from 1 to 255 seconds. For proper operation the connection of door sensor is required
- *Alarm if the door is open overtime*. In the case if door will be opened for more time that was set in parameter *Door overtime*, alarm will be activated
- *Double direction test*. If the check box is not selected the controller will not generate events *entry* and *exit access*, there will be one event *Effective card*
- *Attend time attendance*. It is necessary to select check box in the case, when door will be used in time attendance (TA)
- *Alarm time*. Duration time of the alarm. It can take value in the range from 1 to 65535 seconds. 99 means no limitations;



- *Door alarm.* Alarm output will be activated if door will be opened without authorization, door sensor must be installed for the correct operation;
- *Door is open overtime.* In the case if door will be opened for more time that was set in parameter *Door overtime*, alarm output will be activated
- *Invalid card.* Alarm output will be activated if not authorized card or pin will be used
- *Swipe card during invalid Time zone.* Alarm output will be activated if card holder will try to go through the door in invalid time zone

4.2.3 Time zone settings

After door's parameters setting, you should set the time zones (Pic. 4.9). 8 time zones for 4 doors controllers and 16 time zones for 1 or 2 doors controllers can be managed. Parameters:

- *Name*
- *Time and day scopes* should be set
- *Verification mode.* Select doors working mode
 - *Card.* RFID card is used in this mode
 - *Password.* Password is used in this mode. It can be up to 6 digits
 - *Card + Password.* In this mode, you first should use a card and then enter your password
 - *Double card.* In this mode you should use two cards to pass through the door
 - *Free pass.* In this mode the door will switch to the status "*Keep door open*", after any card holder with correct user rights will go through the door. The Door will automatically be closed when the time zone end time will be occurred
 - *Card or password.* In this mode either card or password can be used by card holder for passing through the door
 - *Door timer.* In this mode door will be opened after begin time of time zone and closed at end time of time zone

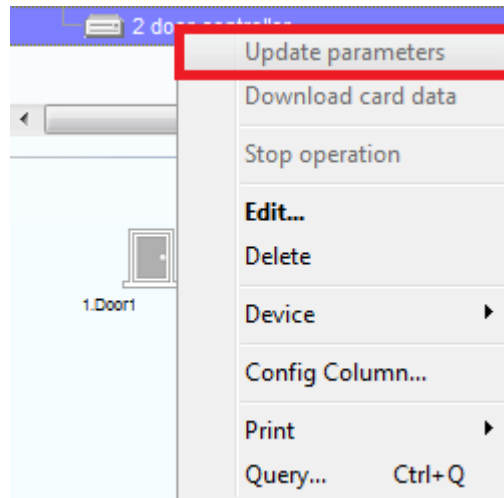


- *Alarm output timer.* In this mode you can set the activation of the alarm output during the time scope of a time zone
- *Door button timer.* In this mode can automatically block the exit on the schedule button
- *Expiry date.* Specify the end time of the time zone. 2000-01-01 means no limitations
- *Enable anti-pass back* – switch on the Anti-pass back.

A screenshot of a software dialog box titled "Time zone settings". The dialog has a light blue header and a white body. It contains several fields and checkboxes. At the top, there is a checked checkbox labeled "Enable". Below it is a text field for "Name" containing "DoorTime1". The "Time scope" is set to "0:00:00" to "23:59:59" using two spinners. The "Date scope" section has eight checkboxes for "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday", and "Holiday", all of which are checked. The "Verification mode" is a dropdown menu set to "Card". To its right is an unchecked checkbox for "Enable anti-pass back". The "Expiry date" is a text field with "2000-01-01" and a calendar icon; a note next to it says "2000-01-01 means no limitation". The "Cards Group" is a text field with "0". At the bottom right are "OK" and "Close" buttons.

Pic. 4.9 Time zone settings

After the door parameters configuration was made, you should download the configuration to the controller. To do that should open the context menu of the controller and select Update parameters (Pic. 4.10).



Pic 4.10 Updating the controller parameters

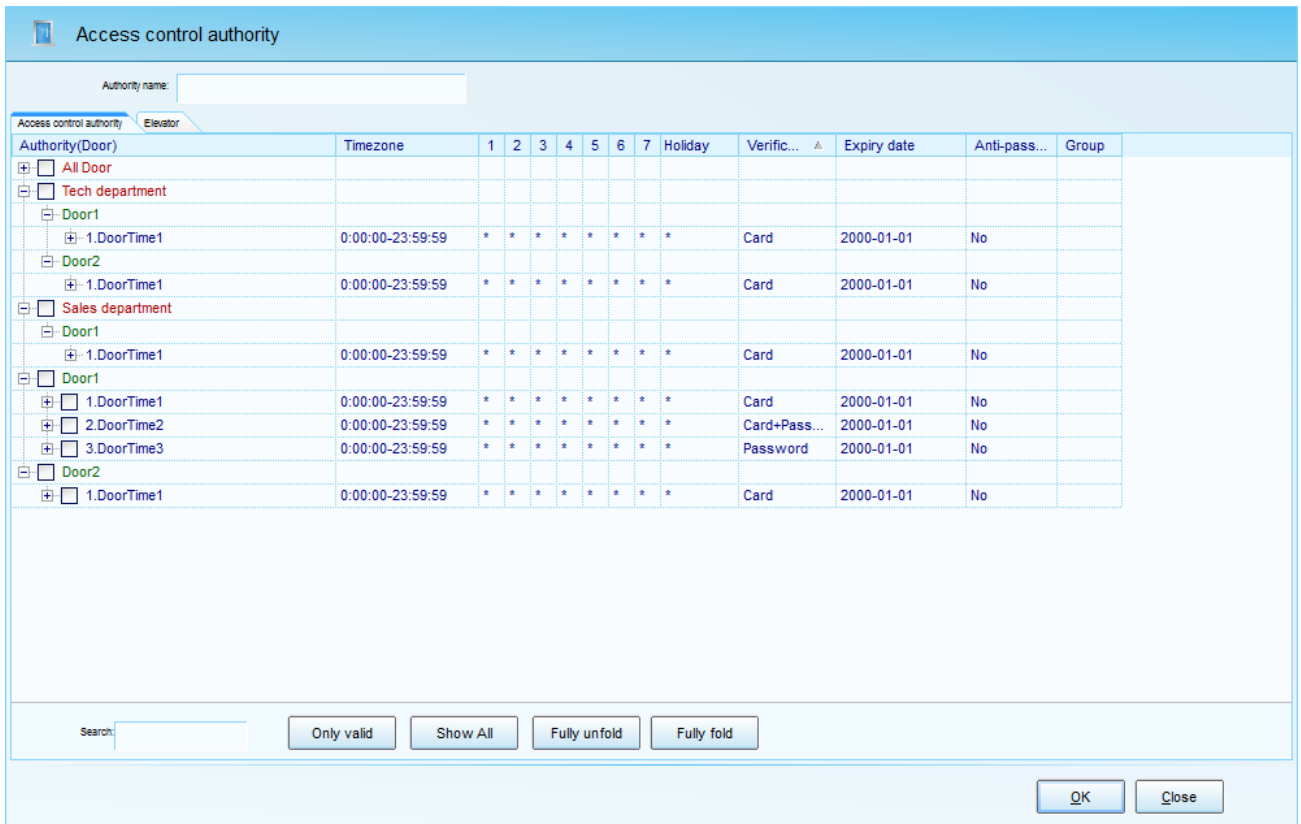
4.3 Authority Tab

The authority of entry and exit defines a using of access control permissions. Here the access control authority is equivalent to position power, said some position can entry the door, and in what time can exit the door. It can be also explained as a combination of the door opening time. Choose the authority in the Main menu to open define authority interface (Pic 4.11).

Authority	Time zone	1	2	3	4	5	6	7	Holiday	Verification ...	Expiry date	Anti-pass back	Group
All Door													
- Tech department													
- Door1													
- 1.DoorTime1	0:00:00-23:59:59	*	*	*	*	*	*	*	*	Card	2000-01-01	No	
- Door2													
- 1.DoorTime1	0:00:00-23:59:59	*	*	*	*	*	*	*	*	Card	2000-01-01	No	
- Sales department													
- Door1													
- 1.DoorTime1	0:00:00-23:59:59	*	*	*	*	*	*	*	*	Card	2000-01-01	No	

Pic. 4.11 Authority tab

To create new authority please use context menu and choose “New...” or use hotkeys combination “Ctrl+Alt+A” (Pic 4.12)



Pic. 4.12 Creating new authority

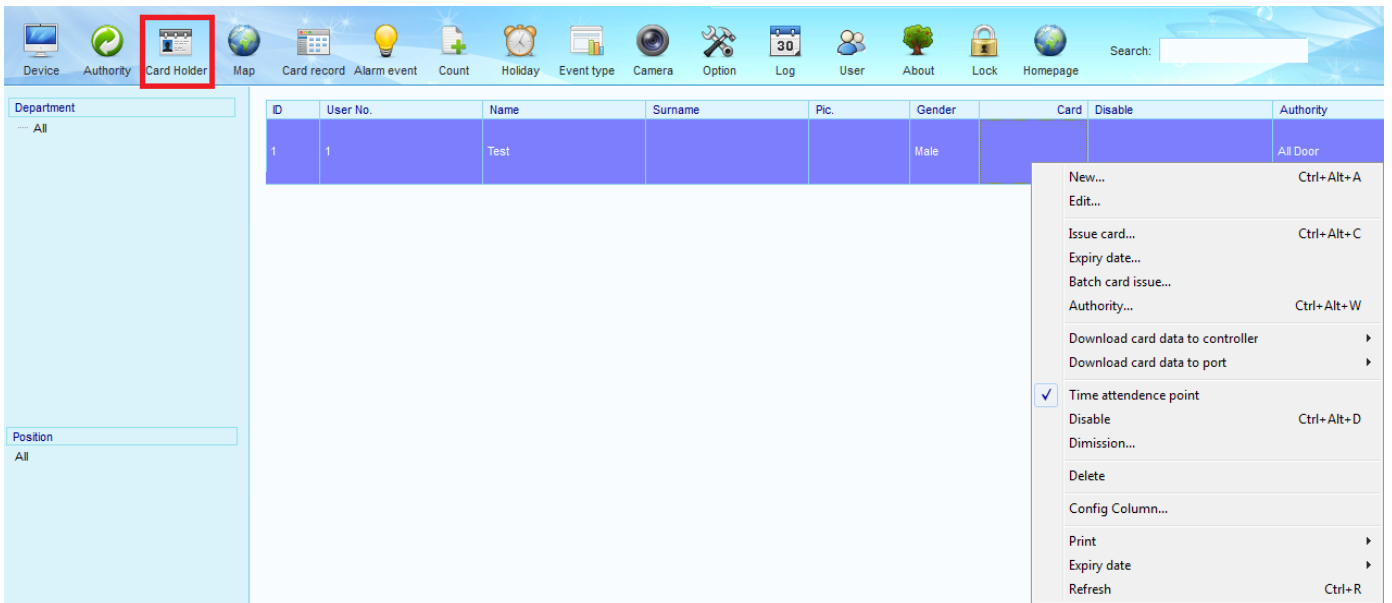
To create a new authority, you need to set following parameters:

- *Authority name.*
- *Choose doors and doors time zone to give access by using checkboxes*

After that you will need to set authority to users or group of users. How to do it will be explained in chapter 4.4.3

4.4 Card Holder tab

At this tab you can manage card holder, issue cards and set authority to the users (Pic 4.13)



Pic 4.13 Card Holder tab

- Structure of the company is created in the area “*Department*”
- In the area *Position* you can separate the card holders by positions;
- Opening the context menu in users area you can:
 - Add new card holder
 - Edit employee`s data
 - Issue a card
 - Replace the card for card holder
 - Assign authority to card holder
 - Upload card data to controller
 - Upload card data to port
 - Time and attendance point check
 - Delete (lock the card)
 - Demission
 - Delete (employee from the list)
 - Set up the list of displayed fields
 - Export/Print
 - Set the expiry date



4.4.1 Creating new card holder

The screenshot shows a software dialog box titled "Edit card holder". It contains several input fields and buttons. On the left, there are fields for "User N:", "Name:", "Surname:", "Gender:" (with a dropdown menu set to "Male"), "Birth day:" (with a date picker set to "1995-08-14"), "Activation:" (with a date picker set to "2015-08-14"), and "Expiry date:" (with a date picker set to "2025-08-14"). Below these are "Department:" and "Position:" dropdown menus, and two "Note:" text areas. On the right, there is a photo selection area with two tabs labeled "Photo1" and "Photo2". To the right of the photo area are buttons for "File...", "Clipboard", "USB Video...", "Camera1...", and "Camera2...". At the bottom right of the dialog are "OK" and "Close" buttons.

Pic. 4.14 Creating/editing card holder

To create new card holder, you need to enter following information:

- *User No*
- *User Name*
- *User Surname*
- *Gender Male/Female*
- *Birth date*
- *Activation and expiry date*
- *Department*
- *Position*
- Photos issuance. Following options are possible:
 - *File*. Select image on computer



- *Clipboard*. Insert the image from the clipboard
- *USB video*. Capture the image using web-camera
- *Camera 1 or 2*. Use connected cameras
- Other personal information

After creating new card holder you need to give him card or password. Use context menu and choose *Issue card* or use hotkeys combination “*Ctrl+Alt+C*”.

4.4.2 Issue card

At this moment you can issue the card in three ways (Pic 4.15):

- Enter card number manually or copy from the event log
- Use the door to register the card. To do this, select the desired door from the drop-down list and use card at the reader at a chosen door
- Use USB-reader for card registration
- Also there you can specify password to card holder. It can be up to 6 digits

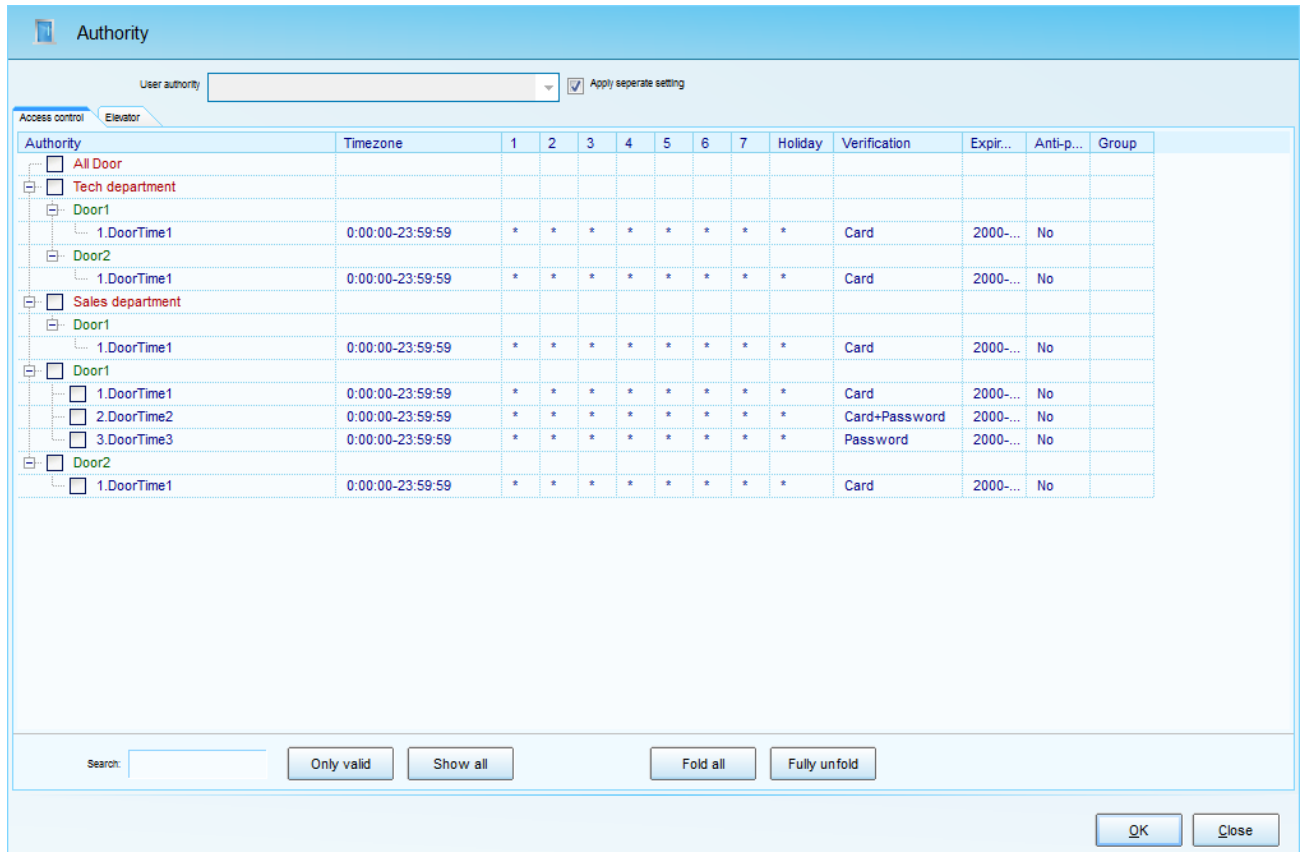
The screenshot shows a dialog box titled "Issue card" with a light blue header. Inside the dialog, there are several input fields: "Name" with the text "Test", "Card" with "0", "Door" with a dropdown menu showing "None", "Password" (empty), and "Expiry date" with a date field showing "2025-08-05" and a time field showing "0:00:00". At the bottom right, there are two buttons: "OK" and "Close".

Pic. 4.15 Issue card

4.4.3 Setting authority to the card holders



To do that you need to use context menu and select “*Authority*” or use hotkeys combination “*Ctrl+Alt+W*” (Pic. 4.16)

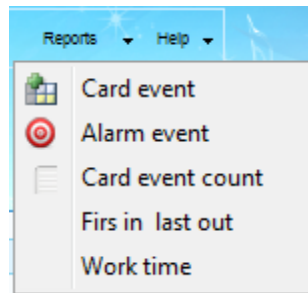


Pic 4.16 Setting the authority to card holders

You just need to choose by using checkboxes required time zones and Click OK button. After that you need to upload data to the controllers. Now system is ready to work.

4.5 Reports

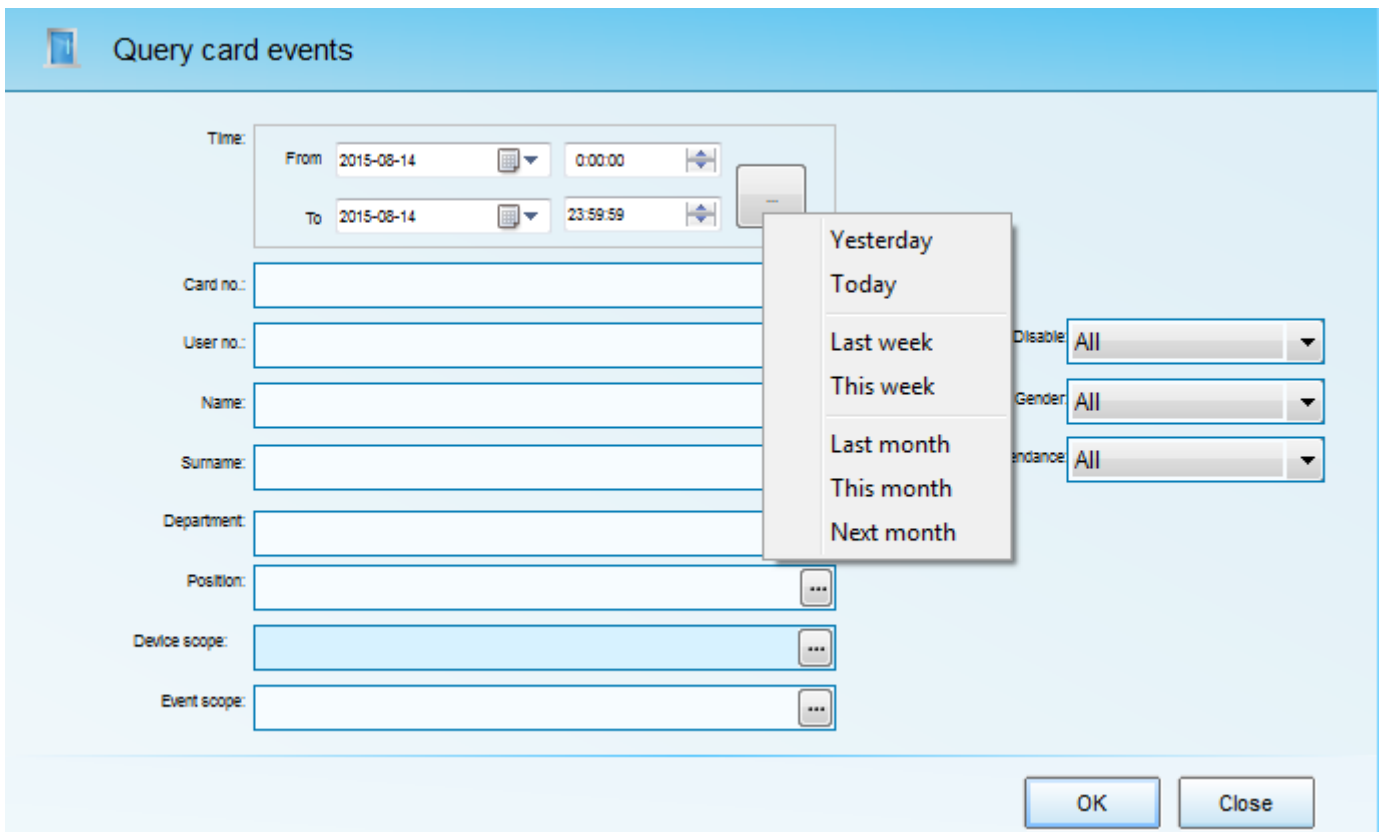
To access the Reports, you should use the side menu Reports and select needed one (Pic 4.17).



Pic 4.17 Reports

4.5.1 Card events report

To generate the report you should open context menu and select “Query” or press key combination Ctrl+Q. In the opened window, select the desired options and click OK button (Pic 4.18)



Pic 4.18 Query card events



- You should first select *date* and *time* scopes on which the report is based. You can use special filters that will allow you to choose quickly the most popular time scopes
- *Card number*. Here you can specify desired card numbers separated by commas;
- *Employee personal number, Name, Surname*. Similar to card number;
- *Department, Position, Device parameters and Event parameters*. In given menu using the popup forms, you can specify the report parameters. In Pic. 4.19 pop up form choosing doors is displayed

A screenshot of a software dialog box titled "Select". The dialog box has a light blue header and a white body. It is divided into three columns: "Area", "Controller", and "Door". The "Area" column is empty. The "Controller" column contains a single entry "2 door controller" with a checked checkbox. The "Door" column contains two entries, "Door1" and "Door2", both with checked checkboxes. At the bottom of the dialog box, there are three "Unselect all" buttons, one under each column. To the right of these are two buttons: "OK" and "Close".

Pic. 4.19 Doors selection

Clicking on OK will form the report.

4.5.2 Alarm events report

This report is formed according to the alarm events in the system (Pic.4.20)



Query alarm event

Time: From 2015-08-14 0:00:00 To 2015-08-14 23:59:59

Device scope: [text box] ...

Event scope: [text box] ...

User: [dropdown menu]

OK Close

Pic. 4.20 Alarm events report

You can refine the report by selecting only the necessary alarm events (Pic. 4.21)

Select Event

Search:

<input type="checkbox"/>	39	Reader Alarm
<input type="checkbox"/>	40	Alarm A
<input type="checkbox"/>	41	Alarm B
<input type="checkbox"/>	47	Duress alarm
<input checked="" type="checkbox"/>	48	Tamper alarm
<input type="checkbox"/>	49	APB alarm
<input type="checkbox"/>	56	Door alarm
<input type="checkbox"/>	57	Door open too long
<input type="checkbox"/>	58	Door unlock
<input type="checkbox"/>	59	Door release
<input type="checkbox"/>	72	Fire Alarm
<input type="checkbox"/>	73	Door Unlock

Unselect all

OK Close

Pic. 4.21 Events for the report



The query result can be found on pic. 4.22.

Time	Event	Area	Controller	Door
2015-08-14 16:06:30	Alarm B		2 door controller	Door1
2015-08-14 16:06:37	Fire Alarm		2 door controller	Door1
2015-08-14 16:06:45	Door open too long		2 door controller	Door1
2015-08-14 16:06:45	Alarm B		2 door controller	Door1
2015-08-14 16:06:45	Door open too long		2 door controller	Door2
2015-08-14 16:06:45	Alarm B		2 door controller	Door1

Pic 4.22. 36 Example of alarm events query execution

4.5.3 Card event count report

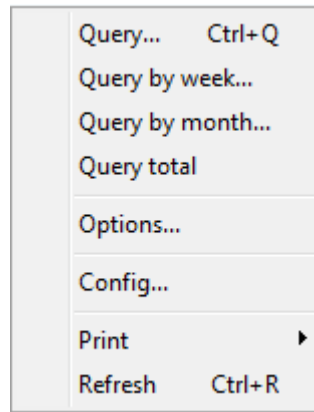
First you should go to Options and set the time intervals, which are needed to be analysed. Let's suppose, there is the task to analyse the arrival time of employees. To do that we need to create 4 time intervals 8:30-9:05, 9:05-9:15, 9:15-9:30, 9:30-11:00 (Pic.4.23).

	Name	Begin	End	Ignore between(s)
<input checked="" type="checkbox"/>	Field1	8:30-9:05	8:30:00 - 9:05:00	0
<input checked="" type="checkbox"/>	Field2	9:05-9:15	9:05:01 - 9:15:00	0
<input checked="" type="checkbox"/>	Field3	9:15-9:30	9:15:01 - 9:30:00	0
<input checked="" type="checkbox"/>	Field7	9:30-11:00	9:30:00 - 11:00:00	0
<input type="checkbox"/>	Field8		0:00:00 - 0:00:00	0
<input type="checkbox"/>	Field4		0:00:00 - 0:00:00	0
<input type="checkbox"/>	Field5		0:00:00 - 0:00:00	0
<input type="checkbox"/>	Field6		0:00:00 - 0:00:00	0

Pic. 4.23. Report options



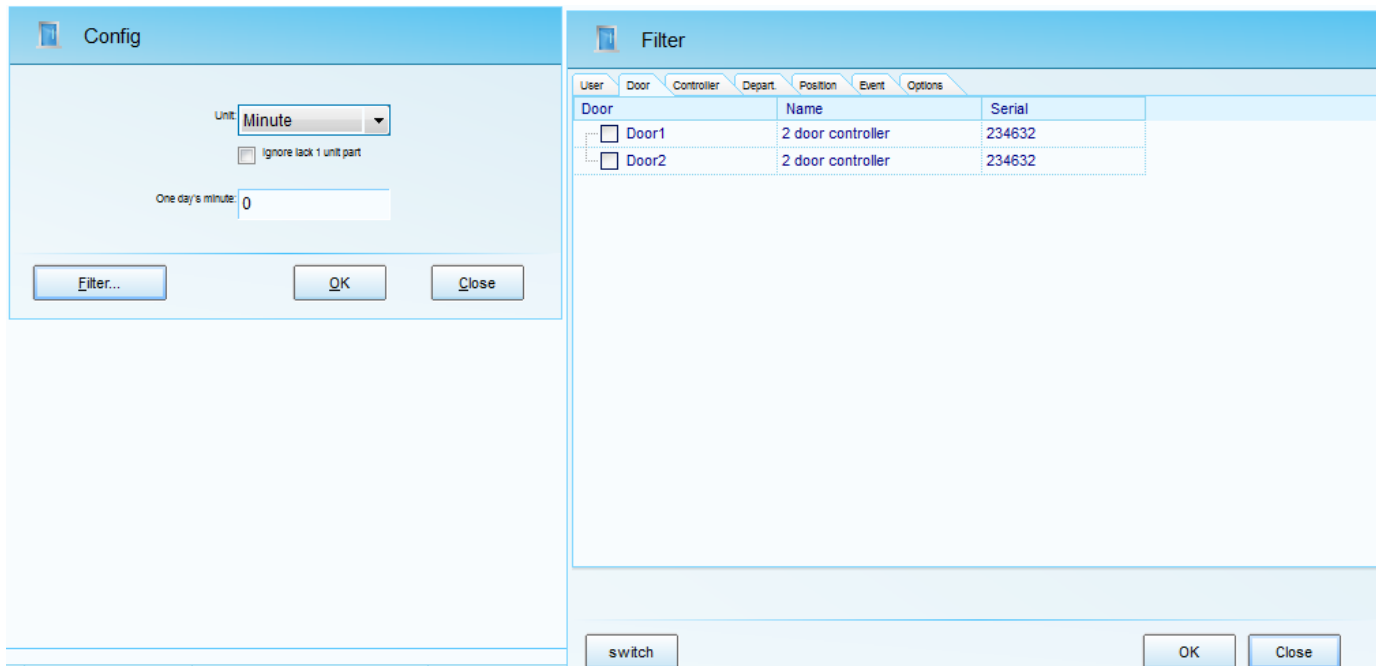
Then choose desired report details (Pic.4.24). Standard search events window on card will be opened, where we select date intervals. After that you can see the report.



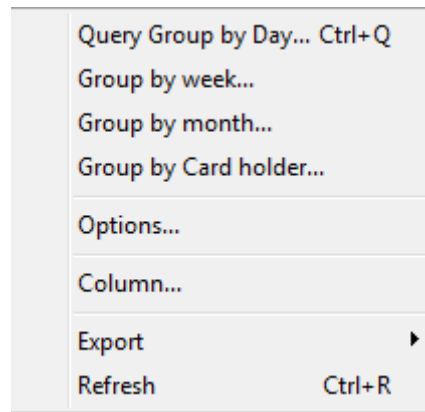
Pic 4.25 Selection of necessary detailed information

4.5.4 Work time report

This report allows you to count time attendance without creating any shifts and time stands. It will count time between Entry and Exit records for all card holders. First you should enter the settings (“Config” menu) and select units of measurement (minutes, hours or days). Pressing “Filter” button and flipping the tabs, you can specify the report parameters (Pic. 4.26). Further you should select grouping option using context menu. Possible grouping options: by days, weeks or months (Pic. 4.27). After that, you can view the report results.



Pic. 4.26 Report parameters



Pic. 4.27 Grouping selection

4.6 Camera tab

First of all ActiveX elements must be installed. To do that please open \\%InstallationPath%\ActiveX folder and find there web.inf file. By using context menu choose "Install" and follow the instructions.



Then In the main menu choose “Camera” and by using mouse right button click “add new camera”. In order to connect to the camera or DVR you should enter necessary information.

- Name
- IP address (default IP address for partizan equipment 192.168.1.10)
- Port (default port 34567)
- Subnet mask (no need to fill it)
- Gateway (no need to fill ot)
- MAC address (ne need to fill it)
- User name (default admin)
- Password (default admin)
- Installation place (no need to fill it)

The screenshot shows a software window titled "Edit camera". On the left side, there is a "Type:" dropdown menu with "Partizan" selected, and a large empty text area below it. Underneath the text area are three buttons: "Search", "Test", and "Stop test". On the right side, there is a "Disable" checkbox, followed by a series of input fields for "Name", "IP address", "Port", "Subnet mask", "Gateway", "MAC", "User name", "Password", and "Installation place". At the bottom right of the window are "OK" and "Close" buttons.

Pic 4.28 Edit camera



After that please click “Test” button. If connection is OK you will see image from camera or DVR.

4.7 Time Attendance (TA)

Please use side menu and enter Time Attendance. First of all you will need to create Timetables

4.7.1 Timetables

For time attendance you should create Timetables – the time of clock in and clock out from work with indication of periodicity. You should use menu item Time Attendance and select Timetable (Pic 4.29)

Serial...	Name	Time zone1	Time zone2
1	sun		
2	mon	09:00-18:00	
3	tue	09:00-18:00	
4	wed	09:00-18:00	
5	thu	09:00-18:00	
6	fri	09:00-18:00	
7	sat		

Pic. 4.29 Timetable

On the left there are displayed all created timetables, on the right detailed information concerning selected timetable. To create new timetable you need to open context menu in the left column and select item Add.



Pic. 4.30 Adding of time fields

After creation the timetable, you need to add time fields. To do this, select the created timetable and select in the right column Add via context menu or press Ctrl+Alt+A. (Pic. 4.30)

Here you should specify:

- *Name*, unique identifier of time frame (it is preferable to use day of weeks)
- *Time zones*. You can create up to three time zones, for their activation you should select check box next to appropriate field. The most popular mode is using of one time zone, for example from 8:00 to 18:00 and two time zones with meal period, for example from 8:00 to 12:00 and from 13:00 to 18:00
- *Absence*. How many minutes stuff can swipe card in advance. If over this time, the records will not be calculated
- *Delay*. How many minutes stuff can delay card swiping. If over this time, the records will not be calculated



- If it is necessary to take into account overtime work and night shift, you need to select appropriate check boxes.

After timetables are created you need to assign them to users.

4.7.2 Shifts

For this you should use menu item Time Attendance and select Shift (Pic. 4.31)

Serial no.	Date	Week	Work or rest source	Timezone1	Timezone2	Timezone3	Set	Strate...	Strategy
1	2015-08-01	Saturd...						Compa...	Company
2	2015-08-02	Sunday						Compa...	Company
3	2015-08-03	Monday						Compa...	Company
4	2015-08-04	Tuesday						Compa...	Company
5	2015-08-05	Wedne...						Compa...	Company
6	2015-08-06	Thursd...						Compa...	Company
7	2015-08-07	Friday						Compa...	Company
8	2015-08-08	Saturd...						Compa...	Company
9	2015-08-09	Sunday						Compa...	Company
10	2015-08-10	Monday						Compa...	Company
11	2015-08-11	Tuesday						Compa...	Company
12	2015-08-12	Wedne...						Compa...	Company
13	2015-08-13	Thursd...						Compa...	Company
14	2015-08-14	Friday						Compa...	Company
15	2015-08-15	Saturd...						Compa...	Company
16	2015-08-16	Sunday						Compa...	Company
17	2015-08-17	Monday						Compa...	Company
18	2015-08-18	Tuesday						Compa...	Company
19	2015-08-19	Wedne...						Compa...	Company
20	2015-08-20	Thursd...						Compa...	Company
21	2015-08-21	Friday						Compa...	Company
22	2015-08-22	Saturd...						Compa...	Company

Pic. 4.31 Shifts

On the left there are three tabs with the ability of assigning shifts by departments, positions and individually for each displayed user. On the right assigned shifts for active tab are displayed. When opening the context menu and selecting item *Add* (or pressing combination “*Ctrl+Alt+A*”), the window adding/editing schedule will be opened (Pic.4.32):

- *Type*, here the type of shift creation is specified (for example the shift is created on the tab Department)
- *Name*, user is identified (for example the shift is created for Sales)
- *Time period*, shift duration is specified, on default, shift duration is 3 months;
- *Timetable*, choice of created timetable;
- *Current day of timetable*, First time frame for beginning of time period is specified. For example, time table begins from 2015-08-02 (Sunday),



timetable (5 working days) from 9 to 18 is selected, accordingly the current timetable day should be selected Sunday.

Edit Schedule

Type: **Depart.**
Name: **Tech**

Time period: 2015-08-02 **Sunday**
2015-11-02

Timetable: 5 working days

Current day of timetable: 1.sun

Separately choose

Name	Time zone1	Time zone2	Time zone3
1.sun			
2.mon	09:00-18:00		
3.tue	09:00-18:00		
4.wed	09:00-18:00		
5.thu	09:00-18:00		
6.fri	09:00-18:00		
7.sat			

Pic. 4.32 Assigning the shifts for card holders

After shift assigning, you should add counting strategy (Pic. 4.33). For this you should open the context menu and select Add strategy. It consists of 5 tabs: Late, Leave early, Absence, Overtime and Holiday. For each tab you should specify numeric parameters for data accounting.

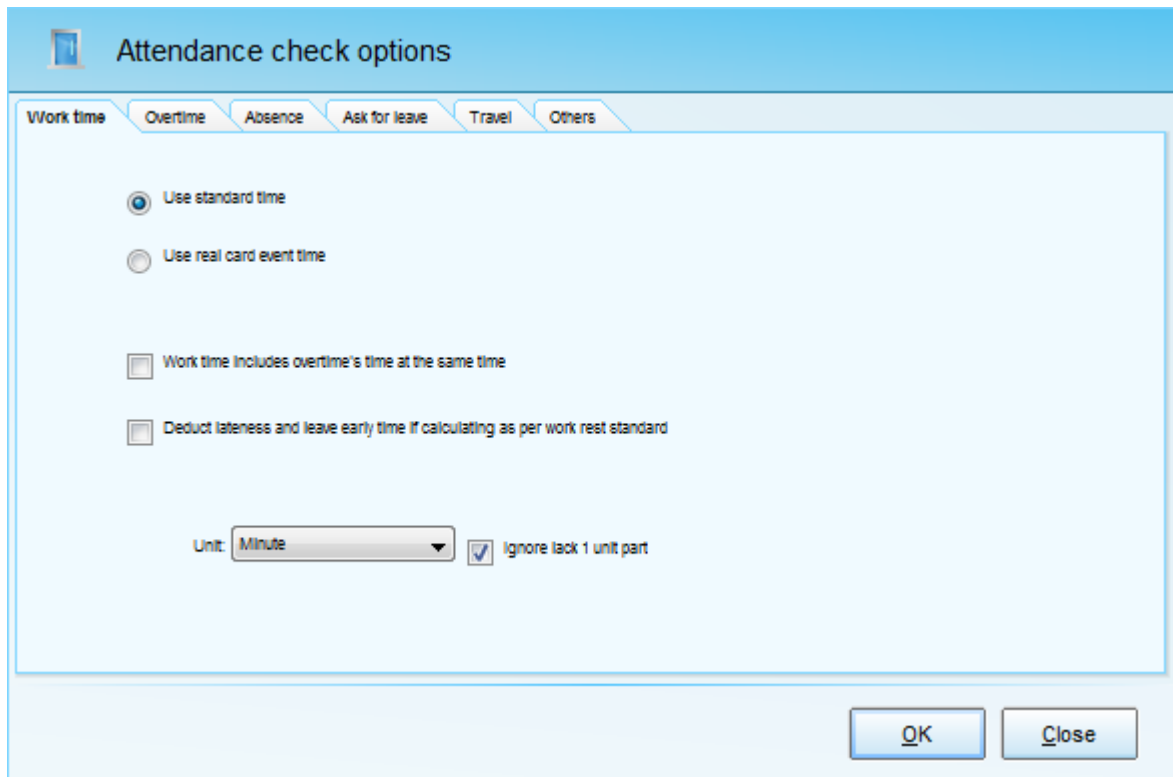
The screenshot shows a software dialog box titled "Edit strategy". At the top, it displays "Type: Depart." and "Name: Tech". Below this, there is a "Name:" field containing the number "0". The "Date scope:" is set to "2015-08-10" to "2015-11-10", with "Monday" indicated. A tabbed interface is visible, with "Late" selected. Under the "Late" tab, there are several input fields: "Permit being late:" (0), "permit being late if night shift:" (0), "Permit being late if overtime:" (0), and "Permit being late if holiday:" (0). A text label "Later more than this time, take it as absence" is positioned between the overtime and holiday fields. The holiday field has a secondary input box containing "99". A red text note at the bottom left of the tabbed area reads "99 means no limit!". At the bottom right of the dialog box are "OK" and "Close" buttons.

Pic. 4.33 Edit strategy

4.7.3 Time Attendance calculation options and data

In this menu calculation principles of working hours are specified (Pic. 4.34) There are possible 2 options of working hour's calculation: use *standard time* (in this case, if at least one record will be per day, the parameter "How many minutes to calculate as work day", specified on tab *Others* will be record for employee as working hours or *real card* events time (for correct calculation of working hours it is necessary at least one event for entry and exit for each card holder).

Also you can set unit measurement for each parameter and select rounding variant.



Pic.4.34 Time attendance options

After that you need to calculate working hours and you can view data in Time attendance data and Group by Employee (Pic. 4.35)



Serial...	User no.	Name	Englis...	Depart.	Position	Status	Data	Week	Time zone1	Time zone2	Time z...	Set	Source	Stragety
1	1001	BEN		LOGI...			2013/12/1	Sunday					Company 7 DAY'S SHIFT-SUNDAY	OFFICE STAFF AT...
2	1001	BEN		LOGI...			2013/12/2	Monday	08:00-12:00	14:00-18:00			Company 7 DAY'S SHIFT-MONDAY	OFFICE STAFF AT...
3	1001	BEN		LOGI...			2013/12/3	Tuesday	08:00-12:00	14:00-18:00			Company 7 DAY'S SHIFT-TUESDAY	OFFICE STAFF AT...
4	1001	BEN		LOGI...			2013/12/4	Wedne...	08:00-12:00	14:00-18:00			Company 7 DAY'S SHIFT-WEDNESDAY	OFFICE STAFF AT...
5	1001	BEN		LOGI...			2013/12/5	Thursday	08:00-12:00	14:00-18:00			Company 7 DAY'S SHIFT-THURSDAY	OFFICE STAFF AT...
6	1002	ALINA		SALE...			2013/12/1	Sunday					SALES DEPT. 7 DAY'S SHIFT-SUNDAY	OFFICE STAFF AT...
7	1002	ALINA		SALE...			2013/12/2	Monday	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-MONDAY	OFFICE STAFF AT...
8	1002	ALINA		SALE...			2013/12/3	Tuesday	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-TUESDAY	OFFICE STAFF AT...
9	1002	ALINA		SALE...			2013/12/4	Wedne...	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-WEDNESDAY	OFFICE STAFF AT...
10	1002	ALINA		SALE...			2013/12/5	Thursday	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-THURSDAY	OFFICE STAFF AT...
11	1003	CRYSTAL		SALE...			2013/12/1	Sunday					SALES DEPT. 7 DAY'S SHIFT-SUNDAY	OFFICE STAFF AT...
12	1003	CRYSTAL		SALE...			2013/12/2	Monday	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-MONDAY	OFFICE STAFF AT...
13	1003	CRYSTAL		SALE...			2013/12/3	Tuesday	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-TUESDAY	OFFICE STAFF AT...
14	1003	CRYSTAL		SALE...			2013/12/4	Wedne...	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-WEDNESDAY	OFFICE STAFF AT...
15	1003	CRYSTAL		SALE...			2013/12/5	Thursday	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-THURSDAY	OFFICE STAFF AT...
16	1004	JACK		SALE...			2013/12/1	Sunday					SALES DEPT. 7 DAY'S SHIFT-SUNDAY	OFFICE STAFF AT...
17	1004	JACK		SALE...			2013/12/2	Monday	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-MONDAY	OFFICE STAFF AT...
18	1004	JACK		SALE...			2013/12/3	Tuesday	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-TUESDAY	OFFICE STAFF AT...
19	1004	JACK		SALE...			2013/12/4	Wedne...	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-WEDNESDAY	OFFICE STAFF AT...
20	1004	JACK		SALE...			2013/12/5	Thursday	08:00-12:00	14:00-18:00			SALES DEPT. 7 DAY'S SHIFT-THURSDAY	OFFICE STAFF AT...
21	1006	TOM		LOGI...			2013/12/1	Sunday					Company 7 DAY'S SHIFT-SUNDAY	OFFICE STAFF AT...
22	1006	TOM		LOGI...			2013/12/2	Monday	08:00-12:00	14:00-18:00			Company 7 DAY'S SHIFT-MONDAY	OFFICE STAFF AT...
23	1006	TOM		LOGI...			2013/12/3	Tuesday	08:00-12:00	14:00-18:00			Company 7 DAY'S SHIFT-TUESDAY	OFFICE STAFF AT...
24	1006	TOM		LOGI...			2013/12/4	Wedne...	08:00-12:00	14:00-18:00			Company 7 DAY'S SHIFT-WEDNESDAY	OFFICE STAFF AT...
25	1006	TOM		LOGI...			2013/12/5	Thursday	08:00-12:00	14:00-18:00			Company 7 DAY'S SHIFT-THURSDAY	OFFICE STAFF AT...

Pic. 4.35 TA data

4.8 Patrol

This module is designed for security tours controlled by security guards. For its correct operation in system at least one controller should be added.

4.8.1 Patrol address and line

Patrol address and line are assigned in this menu. For this you should enter menu Patrol-Patrol address and line. For rout assigning, on the left window *Line* by right mouse button you need to open popup menu and select *New line*. On this form you should specify name of the Line (Pic. 4.36).

A screenshot of a software dialog box titled "Patrol line". The dialog has a light blue header bar with the title and a small icon. Below the header, there is a text input field labeled "Patrol line name:". At the bottom of the dialog, there are two buttons: "OK" and "Close".

Pic. 4.36 Patrol line

Now you can create patrol points by clicking of right mouse button in right program field and selecting the item New patrol address (Pic. 4.37).

You should enter following data:

- *Name* of assigned patrol point
- Select the *address* of patrol point
- *Distance* time from previous point
- *Range* (in the case of exceeding this parameter the events late or earlier arrival will be generated).

A screenshot of a software dialog box titled "Patrol Address". The dialog has a light blue header bar with the title and a small icon. Below the header, it displays "Line: Test" in red. There are several input fields: "Name:" (text box), "Address:" (dropdown menu), "Note:" (text box), "Distance(minutes.seconds):" (text box with "5" entered), and "Rang(minutes.seconds):" (text box with "5" entered). To the right of the "Distance" field, there is an example: "Example: 5.3 is 5 minutes and 30 seconds;". To the right of the "Rang" field, there is another example: "5.03.5minutes and 3 seconds.". At the bottom of the dialog, there are two buttons: "OK" and "Close".

Pic. 4.37. Patrol address



4.8.2 Users

After address and line creation you should create the users and assign patrol lines to them. For this purpose select menu item *Patrol* and select item *Person and Plan*. You should specify the user from data base for plans and routed creation. For this purpose you need to open menu by clicking right mouse button in the left side of the window and select Add the person. In the appeared window you should specify employee name, performing the patrol, and also add his card number.

A screenshot of a software dialog box titled "Person". The dialog box has a light blue header bar with a small icon on the left and the title "Person" in the center. Below the header, there are two text input fields. The first field is labeled "Name:" and the second field is labeled "Card NO:". At the bottom right of the dialog box, there are two buttons: "OK" and "Close".

Pic. 4.38 Person

Then in the right window part you should activate popup window by right mouse button, in which select New patrol plan.



Edit Plan

Person: **Test**

Line: **Test**

Begin time: **17:51:48**

Plan:

Day **2015-08-14**

Week Mon Tue Wed Thu Fri Sat Sun

Month

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK **Close**

Pic. 4.39 Patrol plan creation

In this menu necessary shift parameters are assigned to employee, and also patrol starting time. Patrol plan consists of one or several routes, which can have different patrol starting time.

4.8.3 Real Time patrols

Tracking the patrol rout in real time. In this window the name of user, route and time of patrol starting is specified. Identification time will be recorded when timely card submitting. If the employee is registered earlier or did not have the time to register, then If the employee have registered earlier or have not time for registration, relevant events will be highlighted in red. Also patrol plan can be run or stopped manually. This menu is available in the top tab Patrol- Active patrol.

4.9 Assigning of users privileges



In this menu you can create new users, change passwords, and to assign access privileges to the capabilities of the software. After installation of the software new user admin is created without password.

User	User name
admin	administrator

Opening the context menu you can:

- Add new user
- Edit the existing user
- Delete the user
- Set authority

4.9.1 *New user adding*

Choosing menu item Add or Edit of the user, you should enter following parameters (Pic. 4.40)

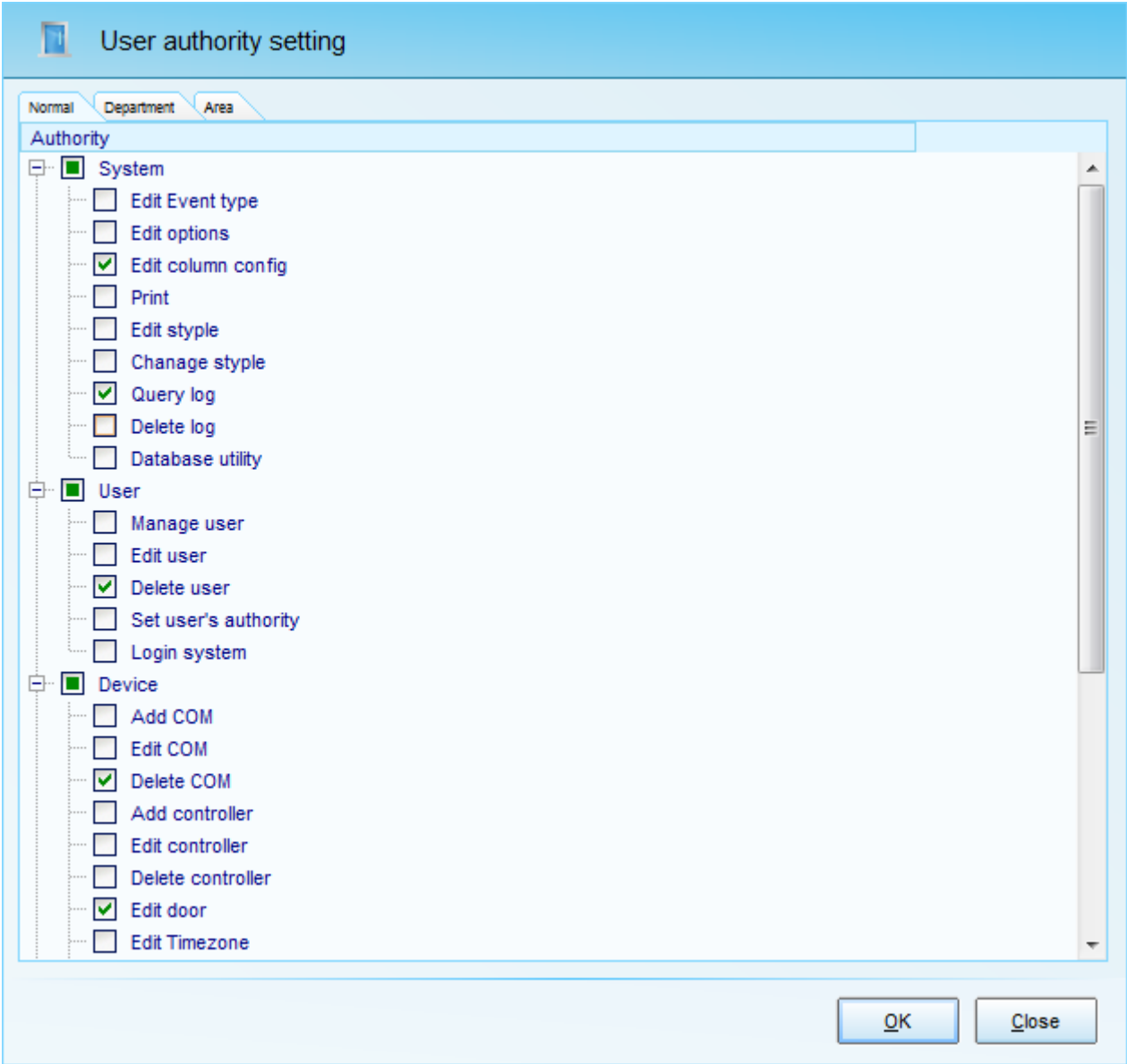
A screenshot of a software dialog box titled "Modify user". The dialog has a light blue header with a small icon on the left. Below the header, there are four text input fields labeled "User:", "Name:", "Password:", and "Repeat:". At the bottom right of the dialog, there are two buttons: "OK" and "Close".

Pic. 4.40 Modify user

4.9.2 *Authority*



Selecting the menu item authority, you can assign the rights (Pic 4.41).



Pic. 4.42 Authority