

DCCONFIGURATOR

**Software Programming Utility for NDC-F16,
NDC-F16PS and DLK-642 Access Control
Panels**

USER MANUAL



Dc Configurator

This manual covers installation of DC Configurator software intended for NDC-F16, NDC-F16PS and DLK-642 access control panels programming.

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Program is designated for NDC-F16, NDC-F16PS and DLK-642 Access Control Panels programming, creating projects, gathering information about enumerated panels programming, panels event log retrieving and RF ID enrolment.

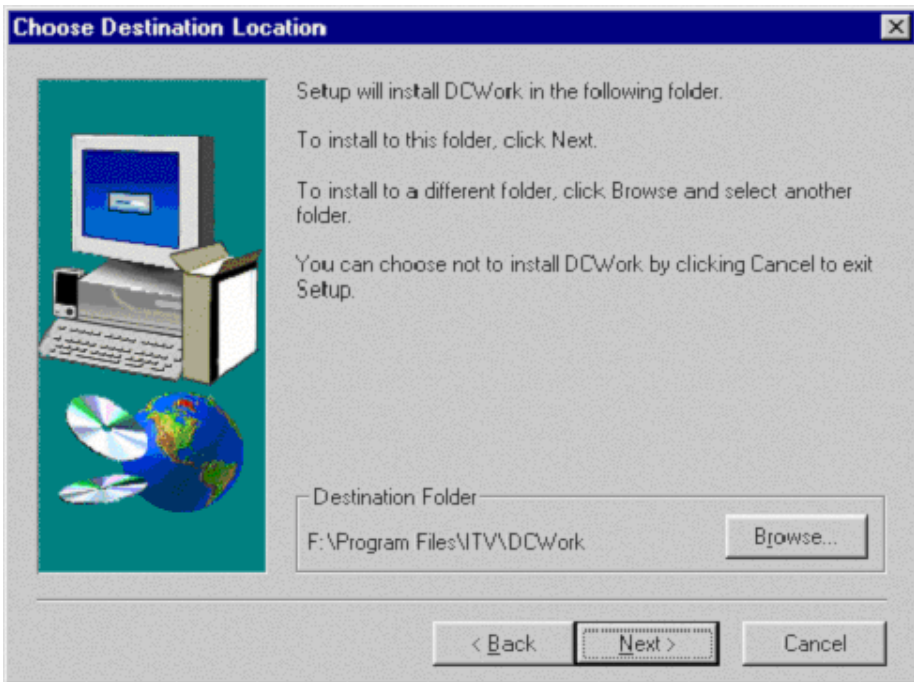
System Requirements

- Intel 80486 or higher CPU
- 16 MB RAM and more
- Display resolution 800x600 and more
- Microsoft® Windows™ 95, Windows™ 98, Windows™ 2000, Windows™ XP, Microsoft® Windows™ NT 4.0 operating systems.


Program Installation

1. Insert floppy disk into the Floppy Drive (A: , for instance)
2. Choose START/RUN...
3. In the edit line type appears A:\SETUP.EXE press OK. The installation will start
4. Program will prompt you the path for the installation. If you agree with the prompted path, press "Next" button, otherwise choose required path yourself using "Browse..." button and press "Next".

Figure 1 Set-up Window



5. Installation program will copy the files into the chosen folder and create the

icon  on the desktop.
The Installation is complete.

Program Start

To start the program click twice on the icon on your desktop. The program start window (Figure 2) will appear.

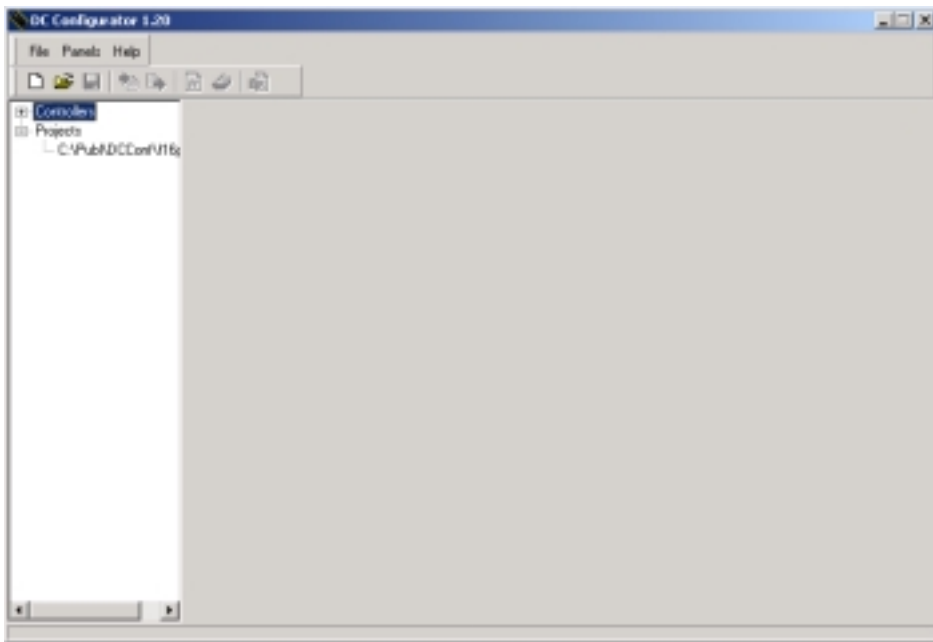



Figure 2 Running program

Projects. Creating and Opening

You have to create new project to start work with panel. You can do it by pressing  button or selecting FILE >CREATE PROJECT menu item.

The newly created project is named "Project 1", the next - "Project 2" and so on. All projects are displayed in the project list in the left part of the window. To select the desired project find it's name in the list of projects and click on it.

If you want to revert to the earlier created project (to open a project), press * button or select FILE->OPEN menu item and choose the desired project file.

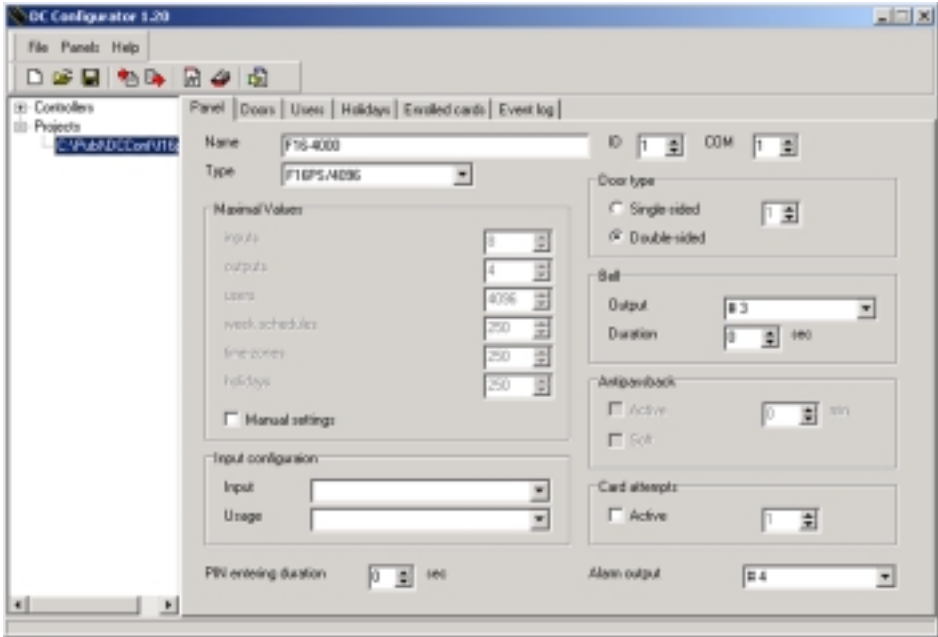
Filling in the project information

Panel

Figure 3 The Panel tab

In the "Panel" tab (see Figure 3) you can fill in the information:

1. Panel Name. Type the reasonable panel name here, describing its location, for instance.



2. Panel Type. Choose the type of the panel from the drop-down list. All panel types, supported by the program, listed here. As soon as the panel type is chosen, the maximal values for inputs, outputs, users etc. are filled in. It is not recommended to set these values manually. Although you can do it after having checked the box "Manual settings". Look in the panel installation manual for allowable values.
3. Panel ID. Type or choose the address in the RS-485 drop line, assigned to the panel. Valid values are from 0 to 31.
4. Number of COM port. Type or choose the serial communication port number the panel is connected to.
5. Door Type. Panel can supervise one double-sided door or two single-sided doors. You have to set the number of doors - one or two in the 'Door Type' panel in case of single-sided door type utilization.
6. Bell. Set the number of the output to be activated for bell and bell sound duration. This output will be activated by the panel when alarm condition arises.

7. Antipassback. Antipassback test (test for the subsequent entrance with the same ID) is performed only for double-sided door. If antipassback is active you can set the time for antipassback testing. To set this time unlimited you have to set zero value. SOFT antipassback means, that in case of the subsequent entrance with the same ID access is granted, but the "Antipassback violation" event is logged.
8. Alarm output. Set the output number to be activated by the panel when alarm condition arises.
9. PIN entering duration. PIN - is the code entered from a keyboard. Set the PIN entering duration in seconds.

IMPORTANT! Be careful assigning panel's ID and number of the COM port properly. Refer to the panel installation manual as for ID setting.

Doors

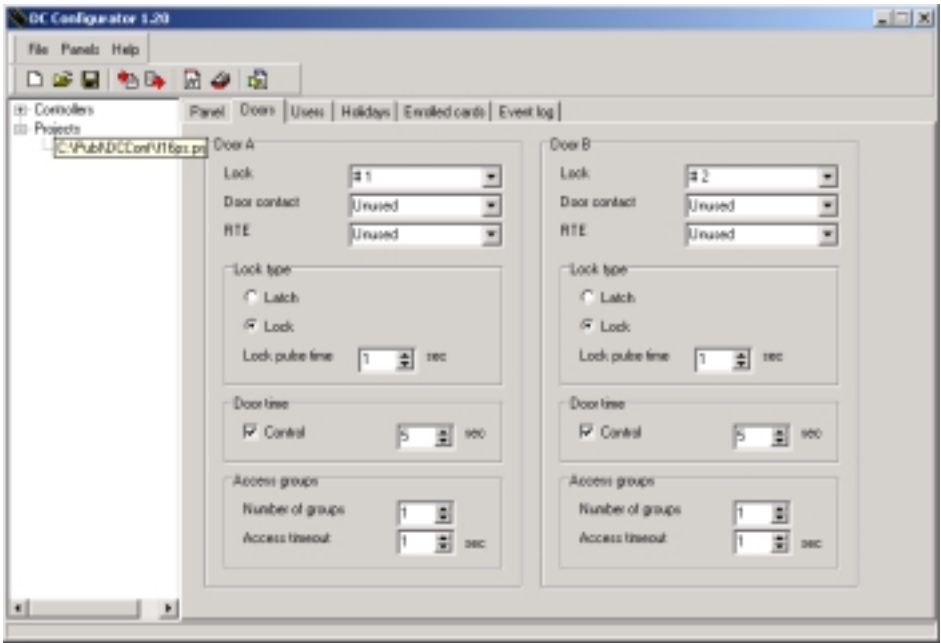


Figure 4 Door tab

In "Doors" tab (see Figure 4) the information for door A and Door B filled in (for the double-sided door it is entrance and exit respectively)

1. Lock. Set the number of the output to activate the door lock.
2. Door Contact. Set the number of the input for door contact connection.
3. RTE. Set the number of the input for Request To Exit button connection.
4. Lock Type. It can be door strike or electromechanical lock. If it is door

strike, lock output will be energized till door is open (door contact becomes open) or till door time expires. For electromechanical lock the output is energized for 'Lock pulse time' set in the 'Lock type' panel.

5. Door Time. Door time may be supervised. Set the door time in seconds. If door is open for a period, longer than time set, alarm condition arises

Cardholders (Users)

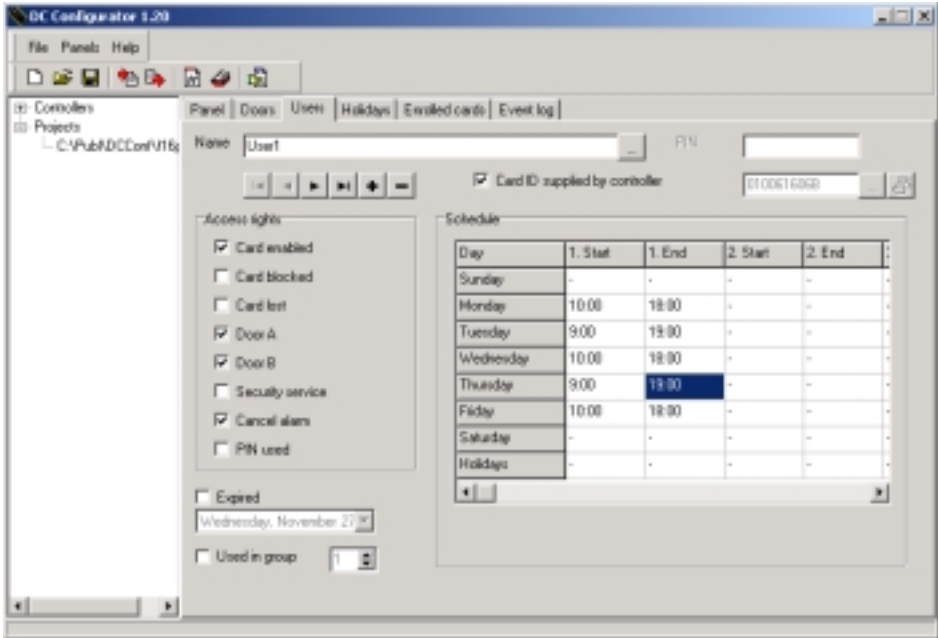


Figure 5 Users tab

Fill in the following information for every user (see Figure 5) in 'Users tab':

- I. Name (Line where you can type user family name, first name, etc.)
- II. Access rights. Set the access rights in checkboxes "Card enabled", "Card blocked", "Card lost", "Door A", "Door B", "Security service" (allows to enter the blocked door), "Cancel Alarm" (allows to cancel alarm condition), "PIN used" (denotes that PIN used along with ID)
- III. Expiry Term. If it is necessary to restrict the access with this ID on certain date, mark checkbox "Expired" and choose the date.
- IV. Card ID. It is not recommended to fill this field manually. You can obtain the Card ID from the panel.
To do this:
 - 1) Clear "Card ID supplied by controller" checkbox
 - 2) Press button or select the PANEL->ENROLL

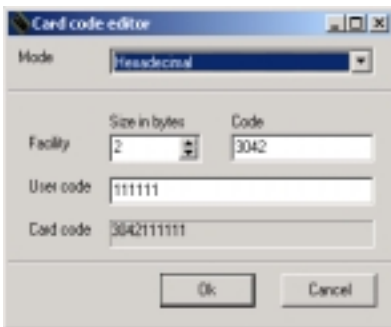


CARD prompt menu item.

- 3) The panel will prompt you to enroll the card (see Figure 6). Pass the RF ID card to the reader.
- 4) Card ID will appear in proper field
Also you can select Card ID from the list of the enrolled cards (see Enrolled cards List). To do this:
- 5) Clear "Card ID supplied by controller" checkbox
- 6) Press the button at the card ID field
- 7) The list of the enrolled cards (see Figure 7) will appear. Select desired card and press "Apply".

You can register card code manually:

- 1) Press "..." button
- 2) After "Card code editor" appears,



fill in the lines and press "OK"
V. Schedule. Fill the week schedule table for the user. After the changes made "Apply" and "Cancel" buttons appear.

To confirm the changes made, press "Apply"

IMPORTANT! Check the schedule thoroughly. Access time should be inserted correctly. The start time of the period is to be less than the end time. Format is HH:MM.

IMPORTANT! Unused start and end time of period must be marked with '-' sign

To select the desired user you can either use buttons: (first user in the list), (previous user in the list), (next user in the list), (last user in the list), or press button and choose desired user from the list appear (see Figure 8). Select user and press "Apply".

To add user press button. When adding new user program will prompt (see Figure 9) you to copy current user settings (schedule, access rights, validity term) for new user settings. Press "Yes" if you want to copy settings.

To remove selected user from the list press button. You will be prompted for removal:

If you really want to remove it, press "Yes".
If the removed user ID was selected from

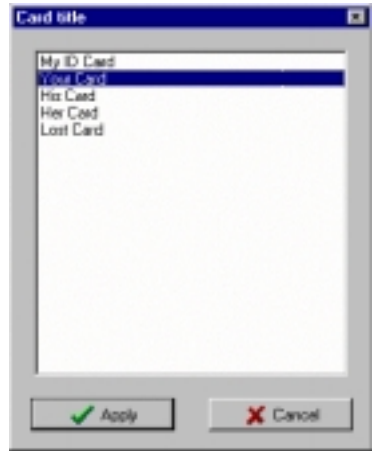


Figure 7.



Figure 8.

the list of enrolled ID's, this ID will appear in this list again.

Figure 9.

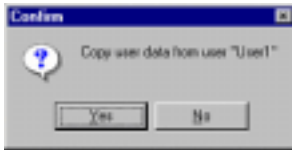
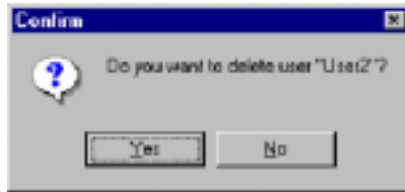


Figure 10.



Holidays

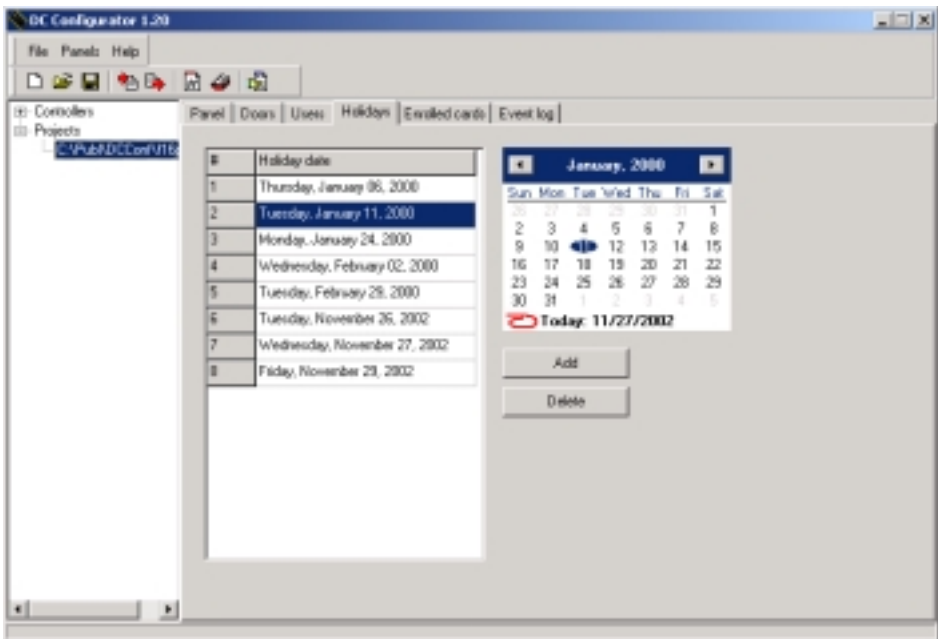


Figure 11 Holidays tab

In "Holidays" tab you are to fill the holiday list. On holidays access is granted on periods, stated in "Holidays" row of the "Schedule" table. To add the date to the list of holidays, select it in calendar and confirm your choice by pressing the "Add" button. To remove the date from the holiday list select it in the list and press the "Delete" button.

Enrolled cards List

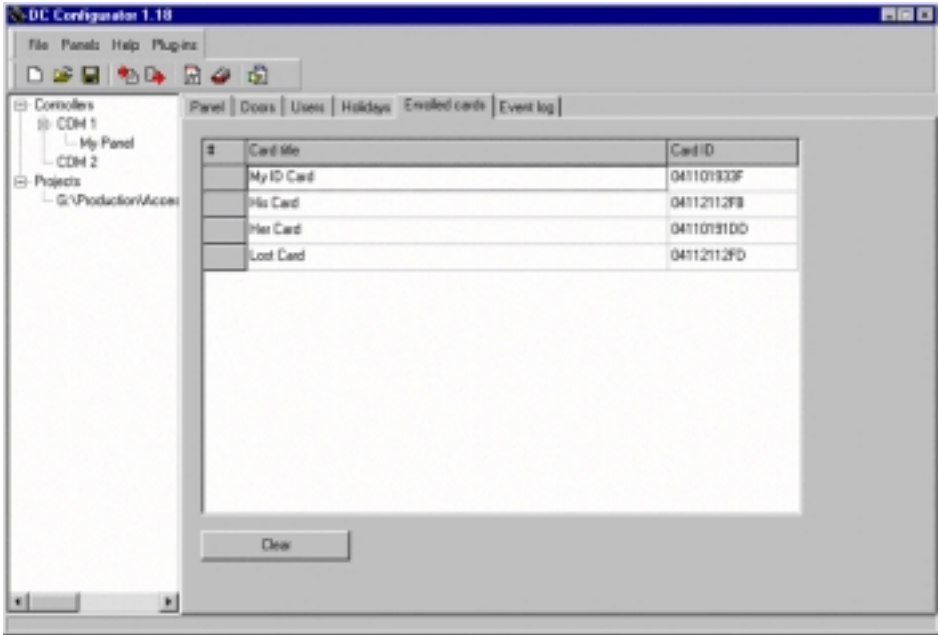




Figure 12 Enrolled cards tab

Enroled cards tab (see Figure 12) contains the list of the enroled ID cards. This list is for the storage of ID cards numbers and titles given to users. This approach provides issuing cards to users without card enrolment for each particular user and issuing cards without panel.

To add new  ID cards to the list (batch enrollment):

- 1) Press  button or select PANELS->BATCH ENROLLMENT menu item
- 2) After "Enroll card" (see Figure 6) appears, pass cards to the reader subsequently
- 3) If an ID card is not enrolled yet (neither for user nor to the list of enrolled cards) the prompt for card name typing will appear (see Figure 13). Type the card name.

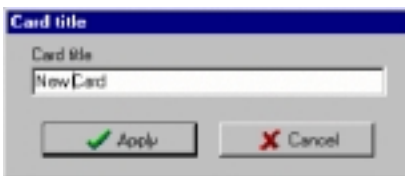


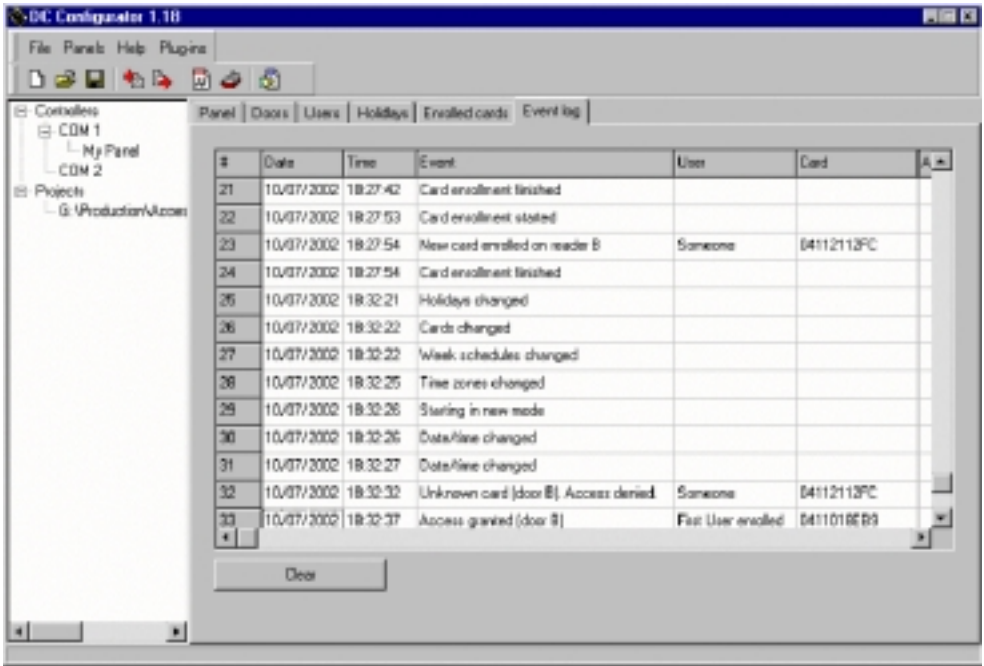
Figure 13 Prompt for card name typing
 4) Press "Apply" button to confirm name
 You can clear the list of enrolled cards with "Clear" button pressing.

IMPORTANT! You can edit neither name nor card ID in this table. It is used only for viewing the list of enrolled cards.



Event log

Figure 14 Event log tab

The event log tab (see Figure 14) is event log review. You cannot change this



information. Event log is stored in the file with the same name as the project file, but with the extension ".log". For example, if the project has name "c:\Program Files\DCWork\Test.prj", the event log file will have the name "c:\Program Files\DCWork\Test.log"

IMPORTANT! The table in this  tab displays the content of the event log file, but the event log is not stored in the panel. To refresh the file  press button or choose PANELS->RETRIEVE LOG menu item.

IMPORTANT! Event log is updated automatically during the panel downloading.

Panel Programming

To determine the list of the panels, connected to your PC, you have to:

- Determine the list of the panels, connected to all serial ports of your PC, select in the left part of the program window "Controllers" and choose PANELS->FIND DEVICES CONNECTED TO ALL PORTS.

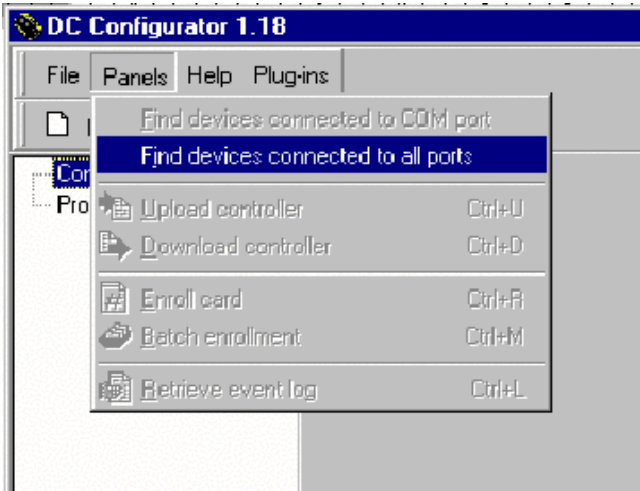
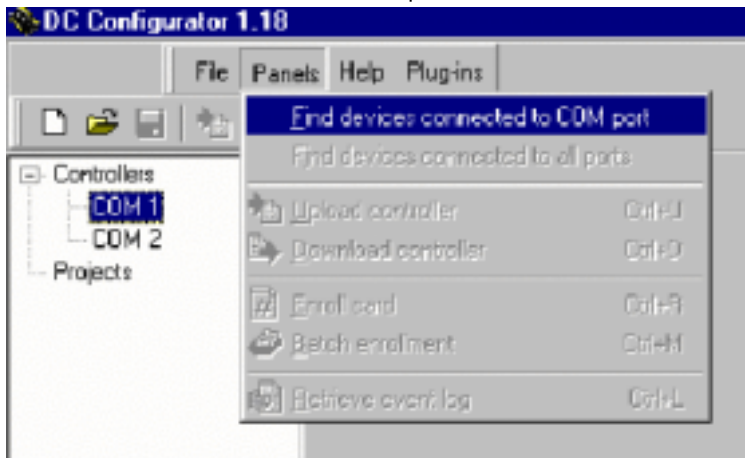
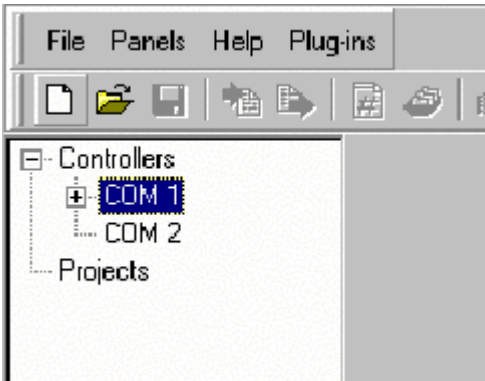


Figure 15 Search devices on all serial ports

- Determine the list of the panels, connected to the certain serial ports of your PC, select in the left part of the program window the desired COM port number, "Controllers-COM 1" for instance, and choose PANELS->FIND DEVICES CONNECTED TO COM PORT.

Figure 16 Search devices on the certain serial port





If panels are found, the '+' sign will appear at the port name.

To see the panels, connected to this port click on this sign (See Figure 17).

To determine the ID of the certain panel, select it in the list. The panel named "My Panel" is selected on Figure 19 . It is connected to COM1 serial port and has ID (address) equal to zero.

Figure 17. Panels on COM1found

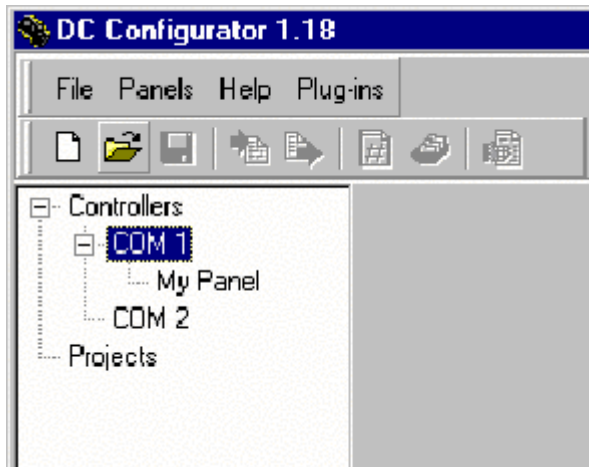


Figure 18. List of panels on COM1

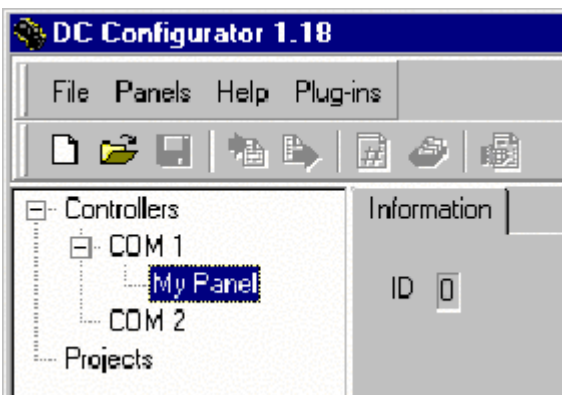



Figure 19. "My panel" is selected

Panel downloading

After filling all parameters in project, you can download the panel with it. In order to do this press  button in the toolbar line or select the PANELS->DOWN-LOAD CONTROLLER.

Project information will be recorded in the panel, connected to the serial port and having ID specified in "Panel" tab. If the panel with these parameters not found, program will warn you about mistake (see Figure 20):



Figure 20 Warning about non existing device

If the panel is found its name will be compared to the name, specified in the project. If names differ you will be warned about it (see Figure 21):

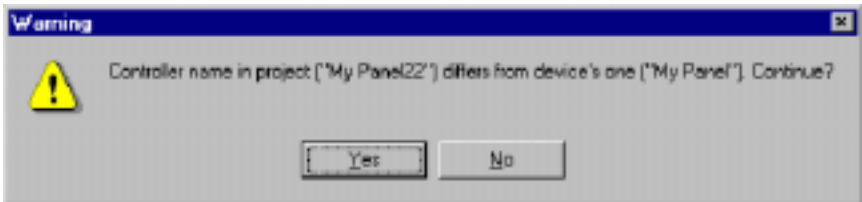


Figure 21 Warning about different names

If you want to download panel anyway, press "Yes" or press "No" otherwise.

If the ID card is not assigned to any user during panel downloading the data for him will not be send to the panel. Program will warn you about it (see Figure 22):



Figure 22 Warning about user data that was not stored in panel


During the panel downloading the event log file is updated automatically.

The panel is loaded with the following data:

- Panel configuration, filled in the "Panel" tab
- Doors settings, specified in "Doors" tab
- User data specified in "Users" tab, except users names ("Name" field)
- Table of holidays, filled in "Holidays" tab
- Date and time, actual in PC

Panel uploading



To upload the panel press  button or select the PANELS->UPLOAD CONTROLLER menu item.


The data stored in panel will be uploaded from the panel connected to the serial port and having the address (ID) specified in the "Panel" tab. If the panel with these parameters is not found, program will warn you about the mistake (see Figure 20). If the panel is found, its name will be compared to the name, specified in the project. If names are different, you will be warned about it (see Figure 21).

The following data is retrieved from the panel:

- Panel Name (in the "Panel" tab)
- Panel Type (in the "Panel" tab)
- User data specified in "Users" tab, except the users names ("Name" field)
- Table of holidays, filled in "Holidays" tab

If you do not remember settings of the panel connected to the certain serial port and with certain ID, create new project, set number of the COM port and ID. Then upload the panel into this project. The event log file will be created.

Projects. Saving and Closing.

You can save the project in order to return to it later. To save the project you have to press  button or select the FILE->SAVE menu item. If you have not saved this project earlier, you will be prompted for the file name and location:

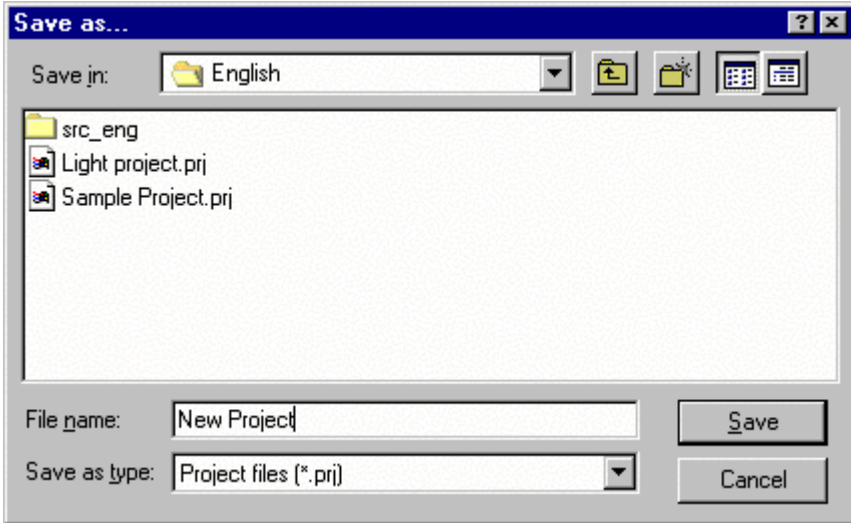


Figure 23. Project saving

To save the project under another name, choose FILE->SAVE AS menu item.

If you do not want to work with the project you can close it. To close the project select it from the list of projects and choose FILE->CLOSE menu item.

If you want to close all projects, select FILE->CLOSE ALL menu item.

If the project which is not saved yet is about to be closed the program will warn you about it (see):

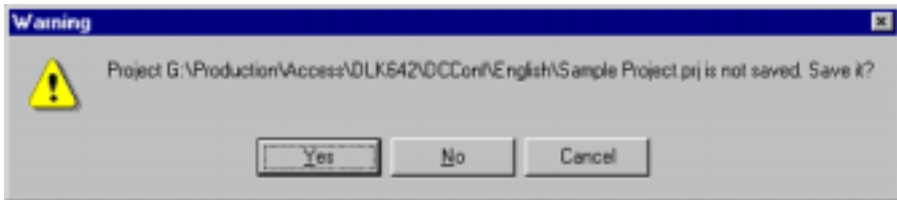


Figure 24. Not saved project saved warning

To save the project, press "Yes", to close project without saving press "No". Pressing of the "Cancel" button abolishes the project closing.

Program closing

To close the program press button in the right upper corner of program window or select FILE->EXIT menu item. If you have not saved some projects before exit, you will be warned about it (See Figure 24)

To save the project, press "Yes", to close the project without saving press "No". Pressing of the "Cancel" button cancels project closing.

Main Notions

Here are some notions mentioned above:

Project

Data set describing the full range of panel settings.

Panel

Access control panel is ment for access control of two doors and can operate as a stand-alone unit with fully distributed database without dependancy on a computer system.

Doors

Reader, access control panel or a part of it, door supervision devices and door locking device form an access point, that is a door.

One panel can control up to two doors, it can be a two-sided door with entrance and exit simultaneous control or two one-sided doors with entrance control solely.

Users

People that have some access rights and possess unique identification card and/or pin code numbers.

Holidays

Dates that are met once a year. Access on these days is granted according to a holiday row in a schedule table, it is different to an ordinary business dayschedule.

Enrolled Cards

Cards that already have titles and ID and help to assume a card to a user without panel engaging.

Event Log

List of events uploaded from a panel and reflecting time and matter of every event. It cannot be changed and is refreshed only while panel upnloading.

Panel Downloading

The process of project data transference from PC to a panel.

Panel Uploading

Tranference of information from panel to project.