

APS mini Plus.Home

Administration program for APS mini Plus systems

Quick Installation Guide



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2 Product Description

The software product *APS mini Plus.Home* is a tool for a complex administration of *APS mini Plus* access control systems. Program enables connection of RS 485 communication lines of *APS mini Plus* system via computer ports *COM*, *USB* or via *TCP/IP*.

The program offers two options of how to maintain the operating data. Before implementing the application it is important to choose an optimal solution:

- *MS SQL Server Compact 3.5* – in this case *no SQL server installation is required*, Compact version of MS SQL Server only needs to be installed. This solution *is not appropriate* for *online operation* and for *large applications*; it can be used only with *x86* operating systems.
- *MS SQL Server 2005 / 2008* – in this case an installation of *express edition* of *MS SQL Server 2005* (or higher) is required, data are stored in a database. This solution *is appropriate* for *online operation* and applications of any size.

3 Quick Program Installation

3.1 SQL Server – Installation and Setup

If you have chosen to use MS *SQL Server 2005 Express* edition, please use following order of instructions for its installation and setup (*MS Windows Vista* will require running the program as an Administrator).

- Ensure following programs are installed: *Windows Installer 3.1* (or higher), *.NET Framework 2.0* (or higher)
- Run the *installer* of MS SQL Server 2005 Express
- After extracting the installation files proceed by accepting the license agreement
- The next step is checking the readiness of the system for the installation – if the system is ready, you may proceed, otherwise try to repair possible errors and run the installation again
- In the *Registration Information* dialog uncheck the *Hide advanced configuration options* checkbox and click the Next button
- Press *Next* in the *Feature selection* dialog
- Choose the *Default instance* in the *Instance Name* dialog and click the *Next* button
- In the *Service Account* dialog check the *SQL Browser* checkbox and continue
- Leave the settings in all other dialogs intact and continue – the installation will begin
- After finishing the installation run the *Configuration Manager* (Start > Programs > Microsoft SQL Server 2005 > Configuration Tools > SQL Server Configuration Manager)
- In the tree on the right choose *SQL Server 2005 Network Configuration > Protocols for MSSQLSERVER*
- Choose *TCP/IP* and open a context menu by right-clicking the mouse and enable the protocol
- Choose *SQL Server 2005 Services* in the tree
- Choose the *SQL Server (MSSQLSERVER)* and in choose *Restart* in the context menu

3.2 APS mini Plus.Home

For installation of the *APS mini Plus.Home* program run its *installer*. For installation on the OS *MS Windows Vista* the administration privilege will be required.

4 Quick setup of APS mini Plus.Home

4.1 Database

When running the program for the first time it is necessary to create a new database; the database is used to manage operation applications and other functions. The database is created only once, from then on the program will connect to the same database. Think about the choice of the SQL server version you will use and continue. When attempting to create a new database in *Windows Vista* system it is necessary to run the program as an Administrator.

4.1.1 Creating a database – MS SQL Server Compact 3.5

Enter the dialog *Open Database* by pressing the *Open* button.

- Select the *MS SQL Server Compact 3.5* tab
- If the SQL server version is not present in the computer, download it from the web page of the producer – click at the link in the dialog
- Click the *Create a new database file...* link
- Enter a file name in a *Database file* field; the database will be stored in this file; you can alter the location by selecting the *Browse...* link
- The sort order can be left on its default value
- Press the *Next* button and revise your settings; by pressing the *Create Database...* link create the database
- After creating the database close the dialog window
- At the *Open Database* dialog press the *OK* button

4.1.2 Creating a database – MS SQL Server 2005

Enter the dialog *Open Database* by pressing the *Open* button.

- Select the *MS SQL Server 2005* tab
- Click the *Create a new database...* link
- In the *Server* field select the computer with your *SQL server*; if it is not listed in the list type *(local)* in the field
- Press the *Test Connection...* link – verify the connection to the server is possible and continue by pressing the *Next* button
- In the next dialog you can change the database name and use another *Collation* (sort order type); click *Next* to continue
- Press the *Create Database...* link
- After the database is created, close the window
- Press the *OK* button and connect to the database

4.2 Hardware and Communication

For adding a module in the program, open the *Hardware and Communication* dialog from the *System* in the main menu.

4.2.1 Network line

In the dialog *Hardware and Communication* press the *New Network Line* button. Fill in the parameters of the network line – *IP Address*, *IP Port* (according to the parameters set at the converter). We recommend filling in a unique *Name* of the line, if you use multiple lines.

4.2.2 Serial Line

In the dialog *Hardware and Communication* press the *New Serial Line* button. Fill in the *Port* parameter – if you use an *USB > RS 232* converter, you can find the name of the port on *My Computer > Manage > Device Manager > Ports (COM & LPT)*. We recommend filling in a unique *Name* of the line, if you use multiple lines.

4.2.3 Modules

For adding a module to a communication line, choose the desired communication line first and press the *New Module* button. Enter the *Hardware Address* and choose a *Name* of the module. Check if the parameters correspond to demanded function of the module, in case they do not, alter them. For adding another module, press the *New Module* button again.

Once you finish adding communication lines and modules close the *Hardware and Communication* dialog by pressing the *OK* button.

4.3 Collecting Cards

Cards can be collected by several ways – via a microreader, by online presenting cards to any reader in the system or from the events archive.




4.3.1 Microreader Connection Parameters Settings

Microreader connection parameters are set in the dialog available after choosing *Program > Options > Microreader*. Check the *Use Microreader* checkbox first and set the parameters *Server IP Address*, *Server IP Port* and *Card ID Length (bit)* then (usually you can left the defaults there if the microreader server is run on the same computer as the program).

4.3.2 Collecting Cards Online from the System Modules or via a Microreader

Choose the option *System > Collect Cards*. Set the parameters displayed in the dialog:

- In the *Module parameter* choose module(s) from which you want the cards to be collected from (you can choose the microreader here as well)
- Choose your *Description Pattern* – this pattern is saved as a name of the card inserted (characters *{0}* are replaced with an ordinal number of a card)
- The *Start index* parameter settles the first ordinal number to be assigned
- The *Example* parameter shows an example of the name of the first created card
- Check the *Create personal cards* checkbox if you want to create personal cards to the ID cards collected

The icon in the *Card ID* column indicates, whether the card is already present in the database. The symbol  indicates the card already exists and a user is already assigned to it. The symbol  indicates the card already exists (no user assigned though). The symbol  indicates an unknown card.

If you want to remove some cards from the insertion selection, choose *Delete* in the context menu, you can also change the order of the cards there eventually. After collecting all the cards, choosing the right order and deleting cards not meant for insertion press the *OK* button to insert the cards.

4.3.3 Collecting Cards from the Events Archive

Choose the option *Events > Open Archive...* Then select all the events you wish the program to use for collecting the cards. Press the *Collect Cards* button then. A dialog similar to the one in the chapter 4.3.2 is displayed. The meaning of all the parameters and the icons is the same. After choosing all required parameters and cards press the *OK* button.

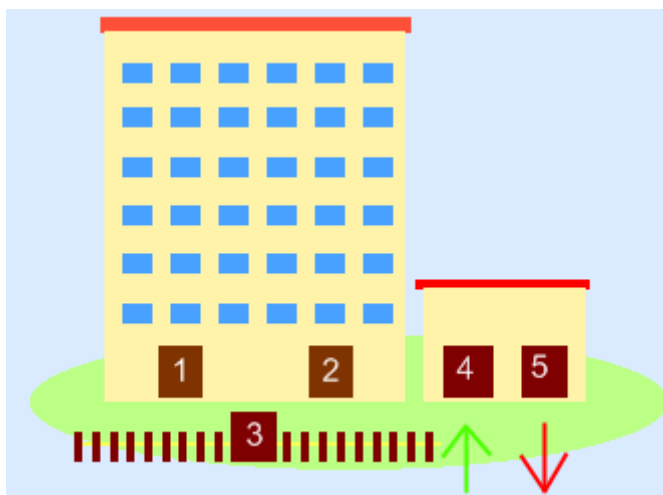
4.4 Setting the Access Rights

The access rights model is designed to ease the administration of access rights in block of flats and similar buildings. Reader modules are bound to a user-defined area, you assign an access right for the area to a user then – by this action a user acquires access rights to all reader modules assigned to the area as its entry modules.

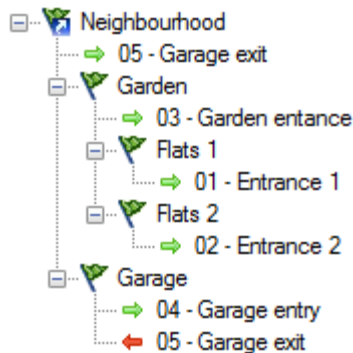
The areas are ordered hierarchically in a tree (left part of the program main window). A user assigned to an area acquires automatically access rights to all of its parent areas.

To create a new area right-click in the Areas list and choose a *New Root* area or eventually a *New Child* area of an existing area. Create an area tree model corresponding to reality and assign entry modules to the areas at the *Modules* tab in the dialog available after choosing *Edit* in a context menu. If a module does not lead from an area which is a parent area of the module's area, it is appropriate to assign it as an exit module to the area it leads from.

Following example shows access rights settings for a simple block of flats with two entrances to the building (readers 1, 2), garden entrance (3), entry (4) and exit (5) of common garage.



In a list of areas we create following tree.



Green reader modules are entry modules of the areas, *red* ones are exit modules of the areas. For example if you want to create a user, who lives in Flat 1, choose the area Flats 1 and drag and drop the user from *All users list* to the *middle* list, which happens to be a list of all users with an access to the selected area. Furthermore if you want this user to be able to access the garage, choose the Garage area and drag and drop the user from All users list to the middle list again.

By this action assign desired access rights to all users. You can find more detailed explanation of the program behavior in *APS mini Plus.Home User's Guide*.

4.5 Data Transfer

To download the access rights from the program to the system, please follow these steps:

- Connect to the reader modules on the communication lines by pressing the *Connect* button
- The icon in the bottom right corner of the main application window indicates connection status, check if the connection is successful. If it is not, check your settings in *Hardware and Communication* dialog.
- For transferring data to the system press the *Send Data* button.

Access rights downloaded event is read from the readers' event archive as soon as the data transfer is finished.