



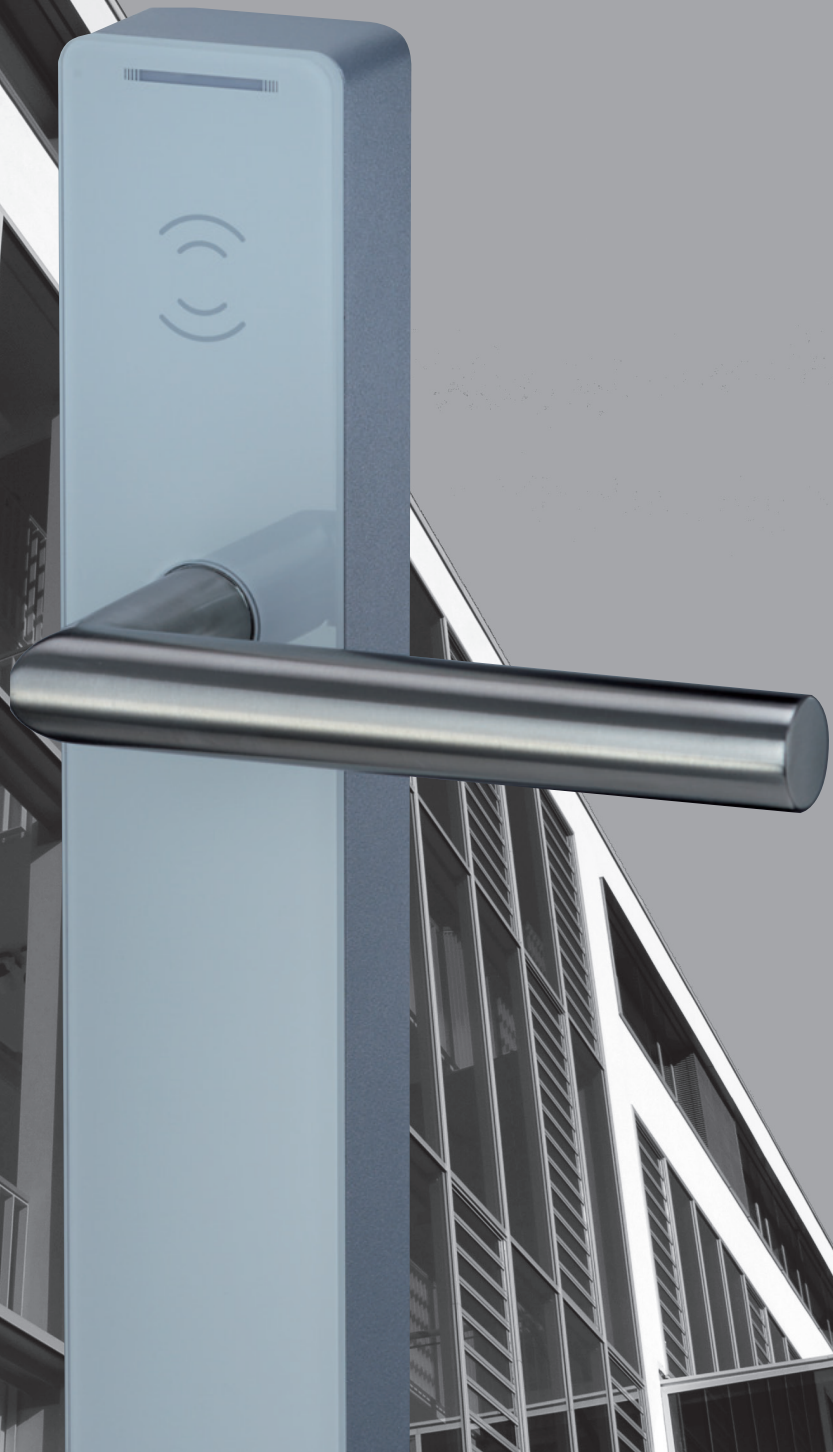
ALLEGION™

NORMBAU

PegaSys

Intelligent Access Control Systems

3000 3.4
Software User Manual



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Introduction

The PegaSys 3000 software is an administration software for all PegaSys components. It is used to assign access permissions to persons, so that these persons can make bookings at certain doors and thus open and close (lock) the doors.

In the PegaSys 3000 software, you can manage the following:

- Doors that are secured with PegaSys components.
- Door groups that represent a combination of doors and determine the local booking permission.
- Time models that define the temporal booking permission.
- Persons with assigned credentials and their access permissions.

You can use the software to "program" the PegaSys offline components and to control the validation terminal at which the access permissions can be written to the credentials.



Figure: Schematic layout of the PegaSys 3000 system.

The associated data is saved in a database. For small systems, the PegaSys 3000 system can be run on a single computer. For larger systems, the database can also be installed on a server that can be accessed by other computers (clients).

System Requirements

This software package contains the *PegaSys 3000* and *Microsoft SQL Server Express 2008* software. The latter is automatically installed as part of the package, if required.

The performance of the software also strongly depends on the existing hardware structure.

Processor	Minimum 1,4 GHz. Recommendation: > 2,0 MHz Multicore
Hard disk	Minimum 2 GByte available storage capacity Recommendation: 10 GByte
RAM	Minimum 1.0 GByte. Recommendation: 4 to 8 GByte
Operating system:	The following client systems are suitable: <ul style="list-style-type: none">• Windows XP SP3 (32 bit)• Windows Vista (32 bit)• Windows 7 (32 Bit, 64 Bit)• Windows 8 (32 Bit, 64 Bit)

System Installation

- Insert the CD/DVD into the drive of your computer.
- Start the setup program. In Windows Vista, Windows 7 and Windows 8, you have to start the setup program as administrator (command in the context menu of the Windows Explorer).
- Select the desired language and start the installation process.
Follow the instructions of the setup program.
If you select the server installation, the setup routine installs the client and the service for the controller.

The components listed below are installed automatically if required:

- *Windows Installer 4.5*
- *Microsoft .NET Framework 3.5 SP1*
- *Crystal Reports*
- *MS C-Runtime Libraries*
-

When this database is being installed, there must be no active network connection. Temporarily pull out the connector of the Ethernet port or (depending on the connection type) switch off the WLAN connection for a short period!

- Confirm the installation of these components.
- After the installation process has been completed, restart the computer.

See also

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If Necessary: Install MS SQL Express

If no SQL database is available or the installation has been interrupted, install *MS SQL Express*. If the database is installed on a remote computer, skip this part of the installation.

- Separate the network connection for the duration of the installation.
Temporarily pull out the connector of the Ethernet port or (depending on the connection type) switch off the WLAN connection for a short period.
This accelerates the installation process; furthermore the number of potential error sources is reduced. If errors occur nevertheless, please contact the support department.
- Start the installation program: Go to the `MSSQL 2008 Express` folder and start the exe file.
In Windows Vista, Windows 7 and Windows 8, you have to start the setup program as administrator (command in the context menu of the Windows Explorer).
A brief installation guide in the form of a PDF file can also be found in this folder.
- After the installation process has been completed: Restart the PC if required.

Login

If a wrong password is entered three times, the software quits automatically.

First login

- Start the program.
The program opens the login window.
- Hold the facility card in front of the read/write device.
- In the login window, enter the user name and password.
The default user name for the first login is `IRCO`, and the password is `admin`. You can change the user name and password in the System Operators administration view.
- At the bottom of the window, enter the user name and password.
- Click on the green checkmark (in the bar above the name and password fields).

Important: For security reasons, change the default user name and password as soon as possible.

Subsequent logins

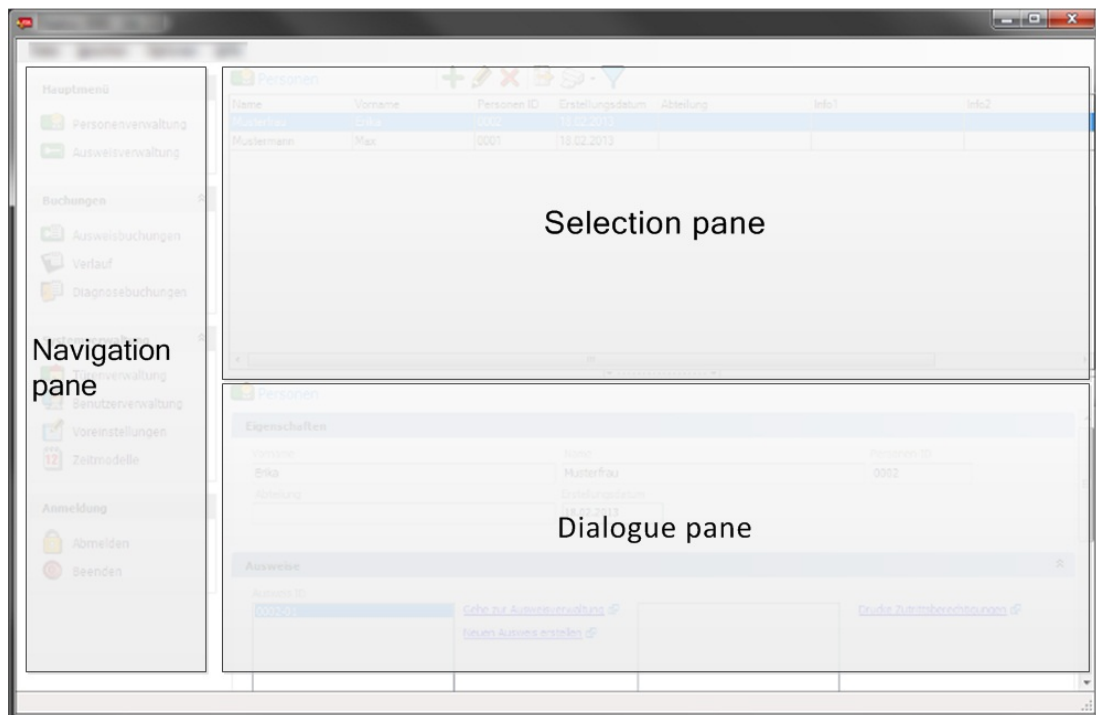
- Start the program.
The program opens the login window.
- At the bottom, enter the user name and password.
- Click on the green checkmark (in the bar above the name and password fields).

See also

System OperatorsFehler! Textmarke nicht definiert.

Structure of the User Interface

The user interface of the software has the following structure:



Navigation pane

The navigation pane is always present. Use the navigation pane e.g. for the following:

- Switching between different views of the software
- Logging out
- Exiting the program

Dialog pane

Here you can edit the parameters that you have selected in the selection pane.

Selection pane

The individual entries in the program are listed here individually, e.g. the various doors, door groups, persons etc. Furthermore you can edit, delete, lock or search through (filter) entries.

With F1, you can access the online help. The online help is context-sensitive. It shows operating information relevant to the view that was open when the online help was accessed.

Languages

The language of the user interface can be selected:

- In the menu bar of the application window, select **Languages**.
- In the menu list, click on the desired language.



The Most Important Buttons

The buttons for the basic functions are located at the top of the application window:



Add

- Click on this button if you want to add a new data record (e.g. a new person). Empty editable fields then appear in the dialog pane.

Edit

- Click on this button if you want to edit an existing data record (e.g. the data of a person).
- Then click on  (to save the changes) or on  (to discard the changes).

I.e. the fields cannot be directly edited by simply clicking on them, "Edit" has to be clicked beforehand.

During the editing, all buttons are shown in gray and are deactivated, except the  and  buttons.

Delete

You can delete data records with this button.

- Select the data records to be deleted.
- Click the Delete button.
- Confirm the confirmation prompt.

Print

- Click the arrow icon next to the button.
The PegaSys 3000 software then opens a menu directly at the button.
- In the menu, specify which data is to be printed or exported.
Thereafter, a pop-up window appears.
- In the pop-up window, define the details.
- Subsequently click "Print report" or "Export report" in the pop-up window.

Filter

With the filter function, you can limit the number of data records to be shown.

- Click on the button.
In the selection pane at the top, an empty line appears. Here you can enter the search terms.

If the filter function is active, the button has a visible outline.

- Enter the filter criteria into this line.
Example: If you enter "S" under "Name", only the data records starting with "S" will be displayed, e.g. "Smith".

Read

Use this button if you want to read a credential or a system card.

Write

Use this button if you want to write to a credential or a system card.

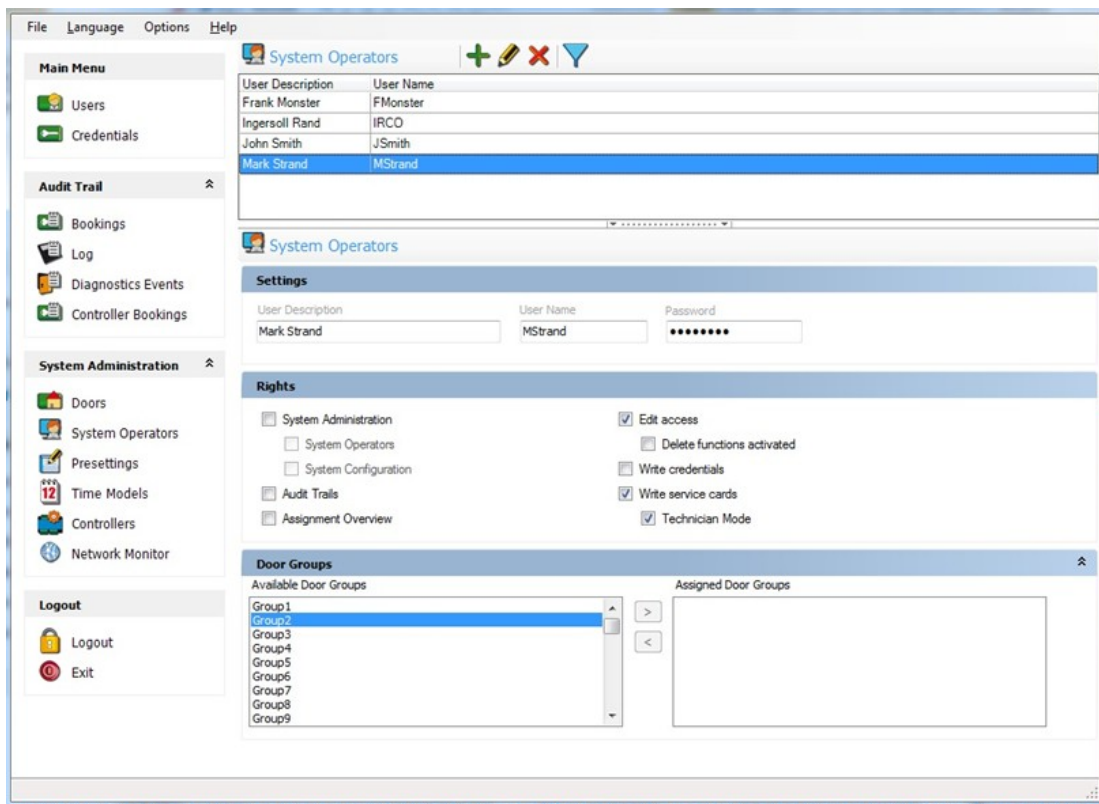
In the "Credentials" view, you can write to the credential of the selected person.

In the "Doors" view, you can open the menu of the button and select the card type to which you want to write data (door initialization card, time initialization card, time model card, blacklist card, battery exchange card or disassembly card).

System Operators

In the *System Operators* view, you define which users with which permissions are allowed to operate the PegaSys 3000 software.

In the navigation pane, under **System Administration**, click on **System Operators**.



The screenshot shows the 'System Operators' configuration window. It features a left-hand navigation pane with categories: Main Menu (Users, Credentials), Audit Trail (Bookings, Log, Diagnostics Events, Controller Bookings), System Administration (Doors, System Operators, Presettings, Time Models, Controllers, Network Monitor), and Logout (Logout, Exit). The 'System Operators' section is active, displaying a table of users:

User Description	User Name
Frank Monster	FMonster
Ingersoll Rand	IRCO
John Smith	JSmith
Mark Strand	MStrand

Below the table, the 'Settings' section for the selected user 'Mark Strand' shows fields for 'User Description' (Mark Strand), 'User Name' (MStrand), and 'Password' (masked with dots). The 'Rights' section contains two columns of checkboxes:

System Administration	Other Rights
<input type="checkbox"/> System Administration	<input checked="" type="checkbox"/> Edit access
<input type="checkbox"/> System Operators	<input type="checkbox"/> Delete functions activated
<input type="checkbox"/> System Configuration	<input type="checkbox"/> Write credentials
<input type="checkbox"/> Audit Trails	<input checked="" type="checkbox"/> Write service cards
<input type="checkbox"/> Assignment Overview	<input checked="" type="checkbox"/> Technician Mode

The 'Door Groups' section at the bottom shows a list of 'Available Door Groups' (Group1 through Group9) and an 'Assigned Door Groups' list, with arrows indicating the ability to move groups between the two lists.

Depending on the requirements and permissions:

- Add new entries, delete entries or edit entries.
- Under **Settings**, define the user name and password of the selected user.
- Under **Rights** and **Door Groups**, define the permissions of the user selected above.

Presettings

In the **Presettings** view, basic presettings are visible; most of them can also be configured here.

➤ At the left of the window, under **System Administration**, click **Presettings**.

Fields: "Credential type", "Object code" etc.

At the top, the most important data of the facility card that was read in during the first login is shown. The fields are not editable.

System Settings

For maintenance work on electronic lock cylinders, system cards are required (battery exchange card, disassembly card). A version number is assigned to each of these system cards. The version number provides additional security. The version number for generating new system cards can be defined at **Version of diagnostics cards**. Additional details are documented in a separate chapter.

The path for the data exchange with the *PegaSys Mobile* software (task files) can be entered under **XML File Path**.

In the "Controllers" view, you can for example define the "Door Relay Time". However, for certain persons, extended door relay times apply. The "Extended door relay time" is calculated from the normal door relay time multiplied with the factor **Terminal opening time multiplier** that you can define in the presettings. Example: With a door relay time of 5 seconds and a factor 3, the extended door relay time is 15 seconds.

Credential Settings (Default)

In these fields, you can enter basic data for new credentials. The new credentials can then be created in the *Credentials* view.

Public Holidays

Here you can define the public holidays and public holiday periods that you select in the **Time Models** view (editing mode).

See also







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Time Models

The following example demonstrates the "Time Models" concept and its function in the software.

Example

Three persons have access to a building: **Person A**, **Person B** and **Person C**. These three persons require access permissions to three areas of a building: **Entrance**, **Office** and **Canteen**. This means three time models are required per door:

	 Person A	 Person B	 Person C
 Entrance	0:00 - 24:00 h Monday - Sunday	7:00 - 15:00 h Monday - Friday	15:00 - 23:00 h Friday - Sunday
 Office	0:00 - 24:00 h Monday - Sunday	7:00 - 15:00 h Monday - Friday	15:00 - 23:00 h Friday - Sunday
 Canteen	0:00 - 24:00 h Monday - Sunday	11:00 - 13:00 h Monday - Friday	17:00 - 19:00 h Friday - Sunday

Each door can store a total of *16 time models*. Such a group of time models is called a **time model group**. In the PegaSys 3000 system, you can define up to 256 time model groups with 16 time models each. In the door management view, you can assign such a time model group to each door.

Examples of time model groups:

	Time model #1	Time model #2	Time model #3
Time model group 1	0:00 - 24:00 h Monday - Sunday	7:00 - 15:00 h Monday - Friday	15:00 - 23:00 h Friday - Sunday
Time model group 2	0:00 - 24:00 h Monday - Sunday	11:00 - 13:00 h Monday - Friday	17:00 - 19:00 h Friday - Sunday

In the example above, the same opening hours apply for the entrance and the office, in other words you can assign the same time model group to both these doors:



Entrance + Office = Time model group 1



Canteen = Time model group 2

Each person can be assigned exactly *one* time model number. The assigned time model then restricts the access permission.



Person A = Time model #1
in the time model group

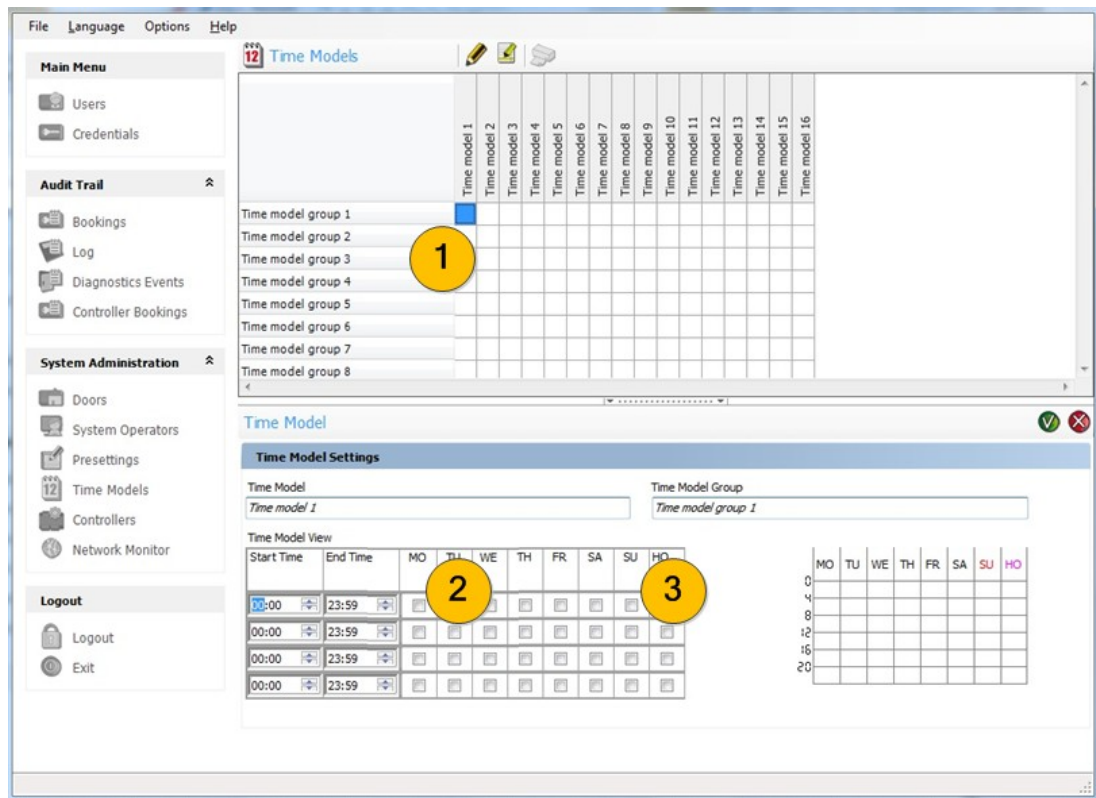





Person B = Time model #2
in the time model group



Person C = Time model #3
in the time model group

Creating Time Models and Time Model Groups



- In the navigation pane, under **System Administration**, click on **Time Models**.
- Click on the box that references the time model group and the time model (1).
- In the title bar, click .
- Define the start and stop times for the respective time model (2).
- Set the checkmark in the **HO** column to activate the holidays (3).
- Then click on  (to save the changes) or on  (to discard the changes).

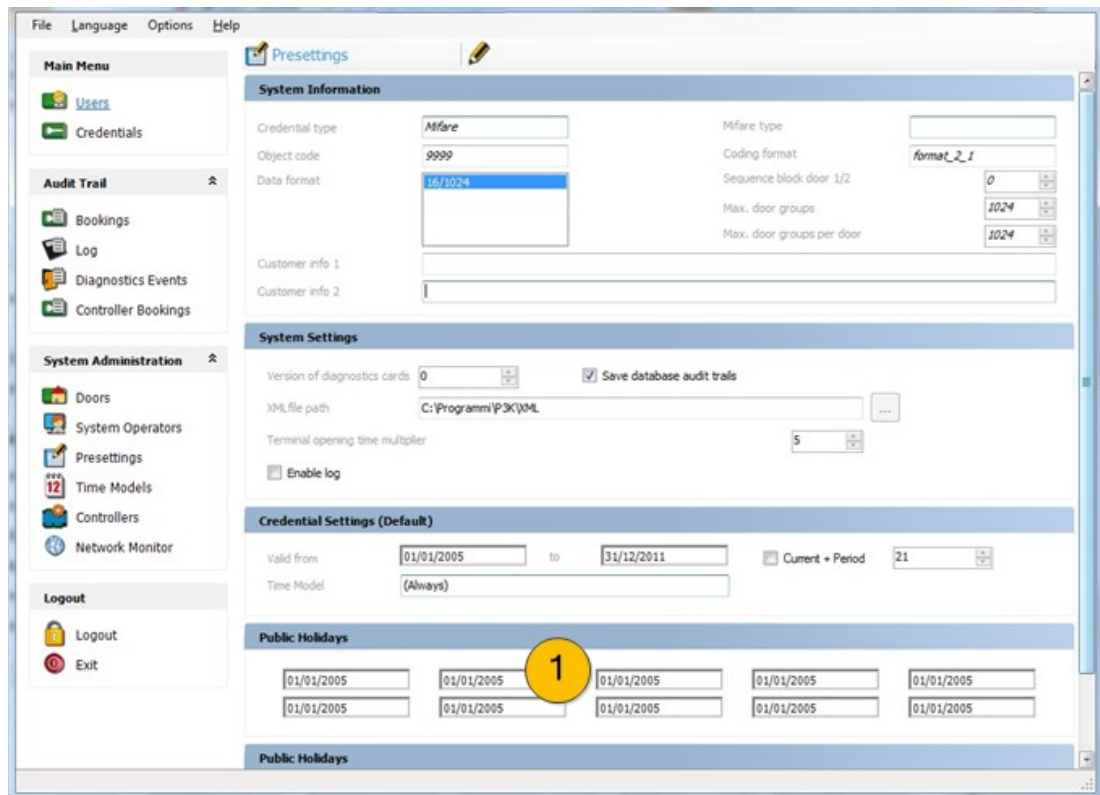
See also




Credential: Assigning a Time Model25

Checking/Defining Holidays

Holidays are defined in the *Presettings* view.

- In the navigation pane, under **System Administration**, click on **Presettings** (1).



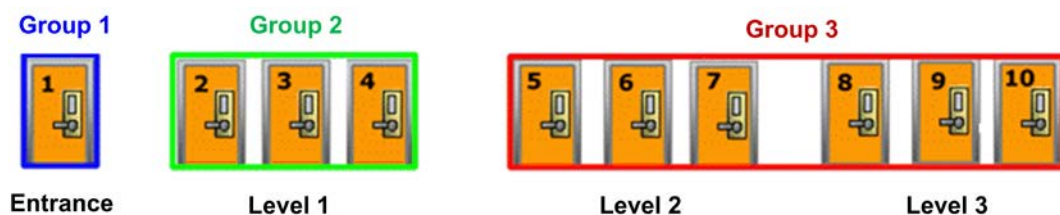
- In the title bar, click .
- Under **Public Holidays**, edit the desired holidays and holiday periods (1).
- Then click on  (to save the changes) or on  (to discard the changes).

Doors

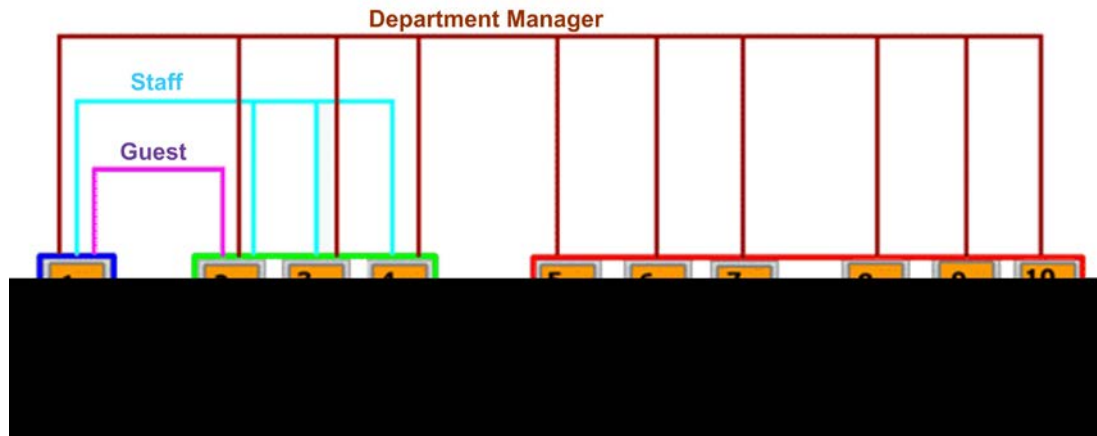
In the PegaSys 3000 system, you can define the individual doors and combine the doors to so-called *Door Groups*. These door groups form the basis for assigning access permissions. You can assign one or several door groups to a credential, as well as additional single doors if necessary. The credential owner then is authorized to enter at these doors.

The following diagrams illustrate the concept of door groups using an example.

The following image represents a building with four different access levels and three door groups:



In this example, credentials for three person groups are required: for *Guest*, for *Personnel* and for *Department Manager*. The guest has access to the entrance and room no. 2. Personnel has access to the entrance and to level 1. The department manager has access everywhere:



The persons therefore need the following access permissions:

Person	Door group
Guest	Group 1, single door, room no. 2
Personnel	Group 1 and group 2
Department manager	Group 1, group 2 and group 3

Configuring Doors and Door Groups

If you want to create or edit doors and door groups in the PegaSys 3000 system, open the **Doors** function in the navigation pane under **System Administration**.

- Create the doors.
- Assign the door groups to the doors.

You can adapt the names of the door groups to the local conditions either before creating doors or thereafter.

Creating Doors

For each door, create a data record in the PegaSys 3000 system.

The screenshot displays the PegaSys 3000 'Doors' configuration window. The interface includes a sidebar with navigation options: Main Menu (Users, Credentials), Audit Trail (Bookings, Log, Diagnostics Events, Controller Bookings), System Administration (Doors, System Operators, Presettings, Time Models, Controllers, Network Monitor), and Logout (Logout, Exit). The 'Doors' tab is selected, showing a table of existing doors and a 'Properties' section for editing a selected door.

Door	Door Description	Auto Mode	Up-to-date	Low Battery	Warning Level
001	Garage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
002	Sauna	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
003	Meeting Room	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
004	Pool	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
008	Roof Garden	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The 'Properties' section for door 001 (Garage) includes the following fields:

- Door: 001, Door Description: Garage, Time Model Group: Time model table 1
- Opening time in seconds: 3, Auto open function: ☐ Auto open function, Time model for auto open function: Time model 1, Disable date/time check: ☐
- ☒ Allow toggle function, Restrict toggle function: (Disabled)
- Assigned terminal: Terminal 1 (T#1) - 1
- ☐ Enable beep on positive booking, ☐ Dual control

The 'Door Groups' section shows 'Available Door Groups' (Group2, Group3, Group4, Group5, Group6, Group7, Group8, Group9, Group10) and 'Assigned Door Groups' (Group1).

- Click on the **Doors** tab (1):
- Create a new door (+).
- Enter information into the following fields:

Door and Door Description.

Time Model Group: The time model group contains the time models for checking the times of the access permission.

Opening Time (...): Number of seconds that a door stays open after a valid credential has been read.



Auto Open Function: The door is automatically opened/closed by means of a time model.

Enable beep on positive booking: The offline device issues a short beep to indicate that it has recognized a valid credential.

Dual control: Access is only possible if a booking is made with two different, valid credentials within a predefined period.

- **Door Groups:** Assignment of the door to one or more door groups in accordance with your requirements.

The door group assignment on a credential determines the local booking permission, i.e. by means of door groups you determine which doors can be opened by the credential.


- With the arrow buttons, you can move the desired door groups into the right-hand list.
- Then click on  (to save the changes) or on  (to discard the changes).

See also



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Assigning a Door or Several Door Groups

If you want to assign a door or several door groups or edit the assignment, proceed as follows:

- In the navigation pane, select the **Doors** function.
- Click on the **Doors** tab:
- Click on the desired door.
- In the title bar, click .




Pay attention to the lists under **Door Groups**: The selected door belongs to the door groups of the right-hand list (**Assigned Door Groups**).

- With the arrow buttons, you can move the desired door groups into the right-hand list.
- Then click on  (to save the changes) or on  (to discard the changes).

Door: Assigning Time Model Groups

To assign *Time Models* to a door, assign a **Time Model Group** to the door. It contains 16 time models.

Based on the time models, the offline device checks the temporal permission of the credential during a booking.

- In the navigation pane, select the **Doors** function.
- Click on the **Doors** tab:
- Click on the door to which you want to add the time model group.
- In the title bar, click .
- In the **Time Model Group** field, select the desired time model group.
- Then click on  (to save the changes) or on  (to discard the changes).

See also

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Creating Time Models and Time Model Groups	12

Door: Additional Fields

Doors with **Automatic** mode are open at definable times.

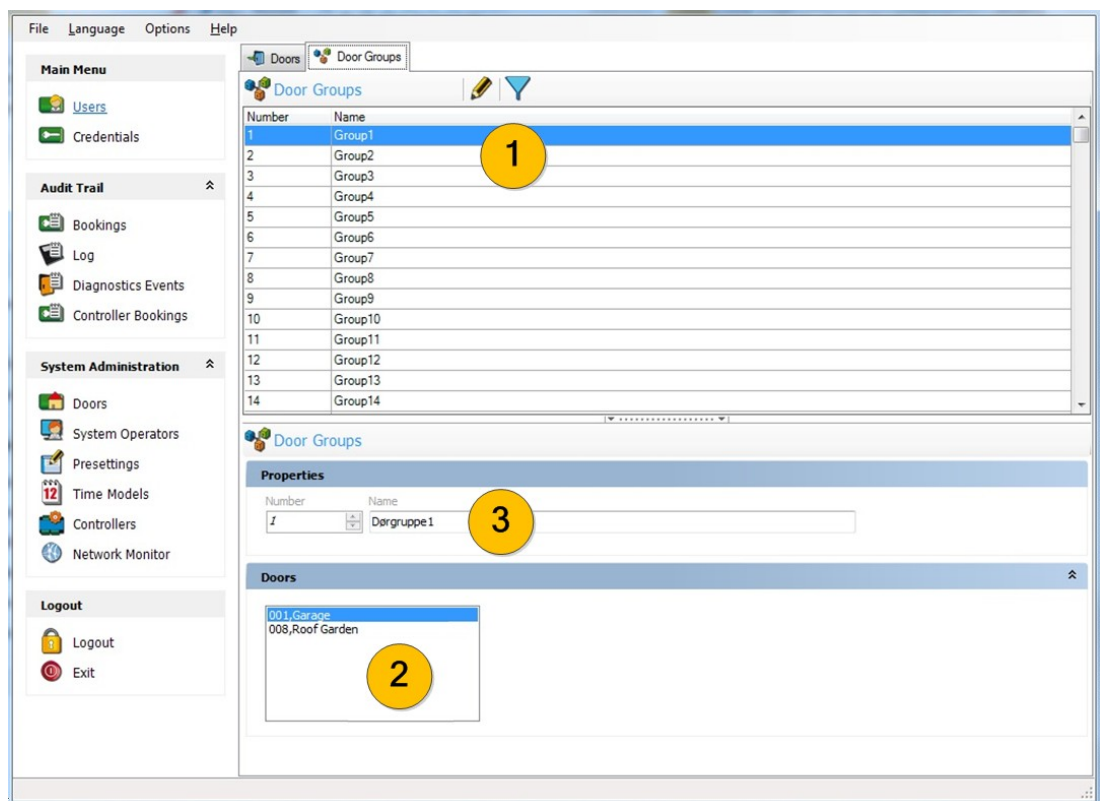
For new or modified doors, the checkmark at **Up-to-date** is missing, as the door only exists in the software. The check mark is set automatically when you create a door initialization card or if you initialize *PegaSys Mobile* by means of the software.

Low Battery Warning Level shows the battery status read during the last service action.

Door Groups: Assigned Doors and Name Changes


On the **Door Groups** administration tab, you can see which doors are part of a door group. There you can also change the names of the door groups.

- In the navigation pane, under **System Administration**, click on **Doors**.



- Click on the **Door Groups** tab.
- In the list, click on the desired door group (1).
In the dialog pane, you can then see the assigned doors (2).

If you want to change the name of the door group:


- In the selection pane: In the title bar, click .
- In the dialog pane, adapt the name of the door group (3).

Copying Door Data



In the navigation pane

- In the navigation pane, under **System Administration**, click on **Doors**.

Continue in the selection pane

- Click on the **Doors** tab.
- In the list in the dialog pane, click on the door which data is to be copied.
- Click on the  button.

Continue in the dialog pane


- Adapt the information as required.
- Then click on  (to save the changes) or on  (to discard the changes).

Door Initialization

When all parameters of the door have been configured, you have to transfer the current settings to the offline devices:

- Place the door initialization card on the read/write unit.

In the selection pane:

- Click on .
- In the expanding menu list, click on **Door Initialization Card**.
- Initialize the offline devices with the door initialization card.

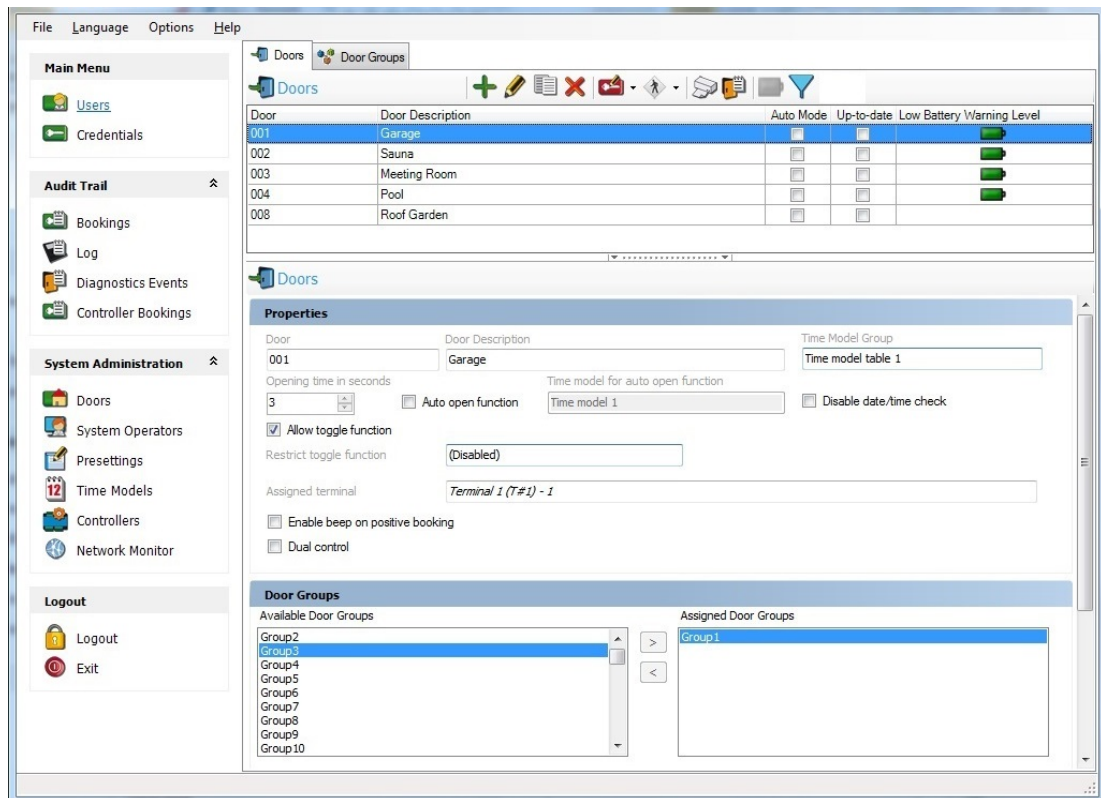
See also


PegaSys Mobile with NFC Interface28

Providing Additional System Cards for Electronic Lock Cylinders

Writing data onto service cards

- In the navigation pane, under **System Administration**, click on **Doors**.



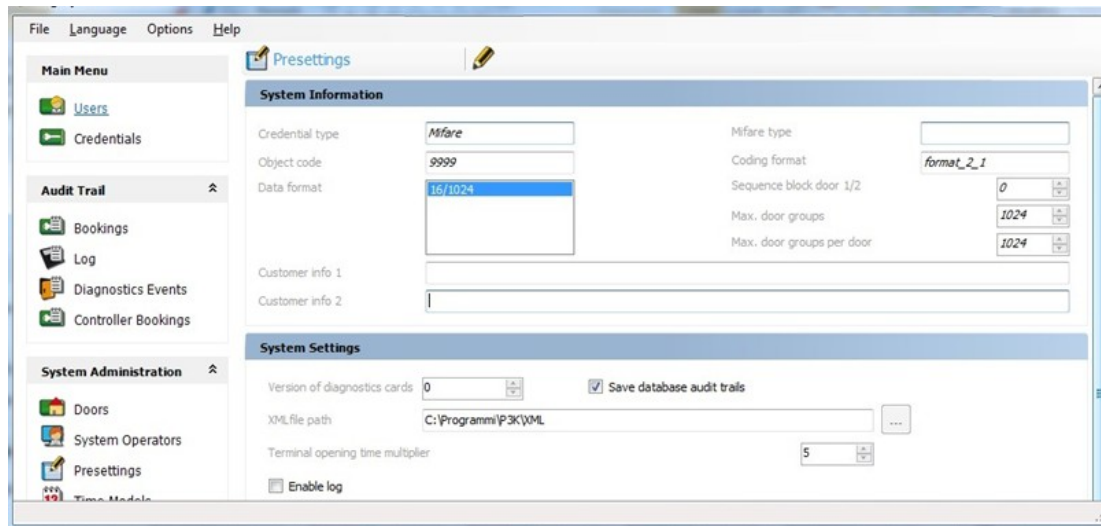
- Click on the **Doors** tab.
- Open the menu at the  button and select the desired system card.
- Follow the instructions.




Battery exchange card and disassembly card

You can use the battery exchange card and disassembly card at doors with electronic lock cylinders.

- *Battery exchange card:* Prior to a battery exchange, hold the battery exchange card in front of the electronic lock cylinder briefly.
- *Disassembly card:* Prior to disassembly, hold the disassembly card in front of the electronic lock cylinder briefly.

A version number is assigned to each of these system cards. The version number ensures additional security: If one of the two cards are lost, increase the version number and import the new card into the electronic lock cylinder by means of the service card. To do so, proceed as follows:



- In the navigation pane, under **System Administration**, click on **Presettings**.
- In the title bar, click .
- In the **Version of diagnostics cards** field, enter the desired card version.
The default is 0.
- Then click on  (to save the changes) or on  (to discard the changes).

Users

In the **Users** administration view, you can save basic data for each person who is authorized to make bookings and assign at least one credential to the person.

- In the navigation pane, click on **Users**.


The screenshot shows the 'Users' administration window. On the left is a navigation pane with sections: Main Menu (Users, Credentials), Audit Trail (Bookings, Log, Diagnostics Events, Controller Bookings), System Administration (Doors, System Operators, Presettings, Time Models, Controllers, Network Monitor), and Logout (Logout, Exit). The main area displays a table of users:

Name	Name	User ID	Create date	Department	Info1	Info2
Monster	Frank	0003	06/04/2012	USA		
Scotti	Gerry	0002	28/03/2011	Italy		
Smith	John	0001	28/03/2011	Germany		



Below the table, the 'Properties' section for the selected user 'John Smith' (User ID: 0001) is shown, with fields for Name, Department (Germany), and Create date (28/03/2011). The 'Credentials' section lists three credentials: 0001-01, 0001-02, and 0001-03. The 'Info' section has fields for Info 1, Info 2, Info 3, and a Comments field. The 'Encoding Information' section is at the bottom.

Adding New Persons

In the selection pane

- In the title bar, click .


Continue in the dialog pane

- Enter the person data.
- Then click on  (to save the changes) or on  (to discard the changes).

See also

Importing a CSV File40

Searching for Persons


- In the title bar of the selection pane, click the  filter button.

If the filter function is active, the button has a visible outline.



- In the list in the selection pane, a line with empty fields appear at the top.
- In one of the empty fields, enter the search term for the desired data record.

Changing Person Data


Selection pane

- Click on the line of the person whose data is to be changed.
- In the title bar, click .

Dialog pane

- Edit the person's data.
- Then click on  (to save the changes) or on  (to discard the changes).

Deleting a Person

- In the selection pane, click on the line to be deleted.
- Click on .

Users: Creating a Credential for a Person



If you want to create a new credential for a person, proceed as follows:

- Open the *Users* view.


You can select the person for whom you want to create a credential or specify the **credential owner** later in the course of defining the credential.

- At the bottom, click the *Create new credential* link.

The software then automatically switches to the *Credentials* view.

- In the dialog pane, define the properties of the credential.
- Check the entry in the Credential Owner field. Select the correct person, if necessary.
- In addition to the validity date, enter the Access time model for the temporal booking permission.
- Enter the Door Groups and the Single Doors for the local booking permission.
- Then click on  (to save the changes) or on  (to discard the changes).

Writing data onto a credential

- Place an uncoded credential on the connected read/write unit.
- In the title bar, click  (Write Credential).
-

See also

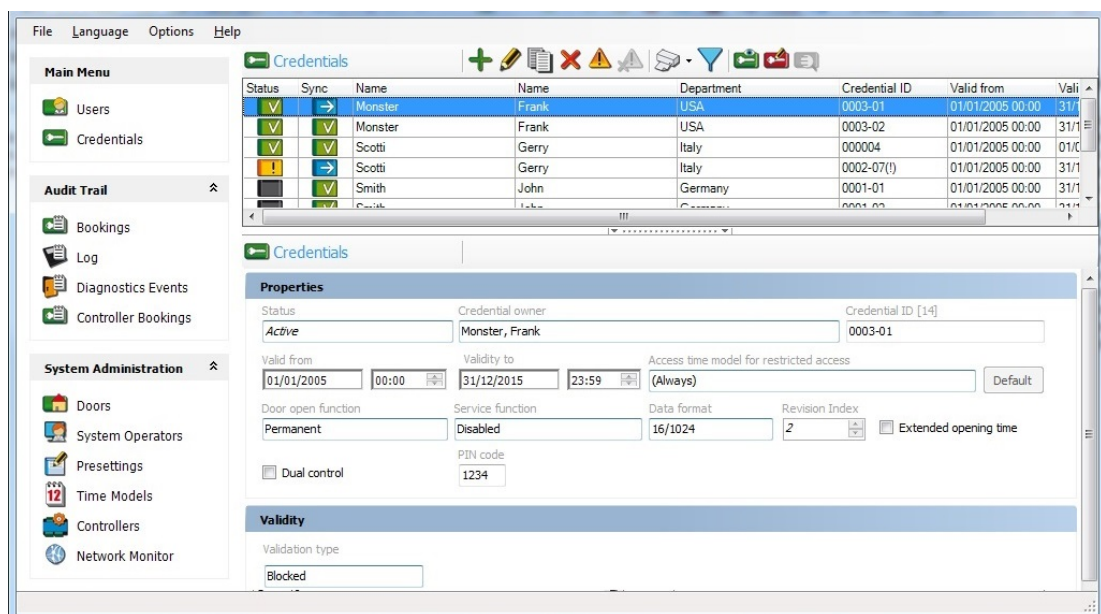
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Credentials

In the Credentials administration view, you assign at least one credential to each person; with this credential, the person can make bookings at the offline devices or at the online terminals.

The **Credentials** view can be accessed as follows:

- In the navigation pane, click on **Credentials**.



Version


- In the navigation pane, click on **Users**.
- In the selection pane, click on the desired person.
- In the dialog pane, click on the link *Go to Credentials*.



Credentials: Creating a Credential

In the *Credentials* view, you can create new credentials for persons.


- Open the **Credentials** view.

You can select the person for whom you want to create a credential or specify the **credential owner** later in the course of defining the credential.

- Click on  in the dialog pane.
- In the dialog pane, define the properties of the credential.
- Check the entry in the Credential Owner field. Select the correct person, if necessary.
- In addition to the validity date, enter the Access time model for the temporal booking permission.
- Enter the Door Groups and the Single Doors for the local booking permission.

- Then click on  (to save the changes) or on  (to discard the changes).

Writing data onto a credential

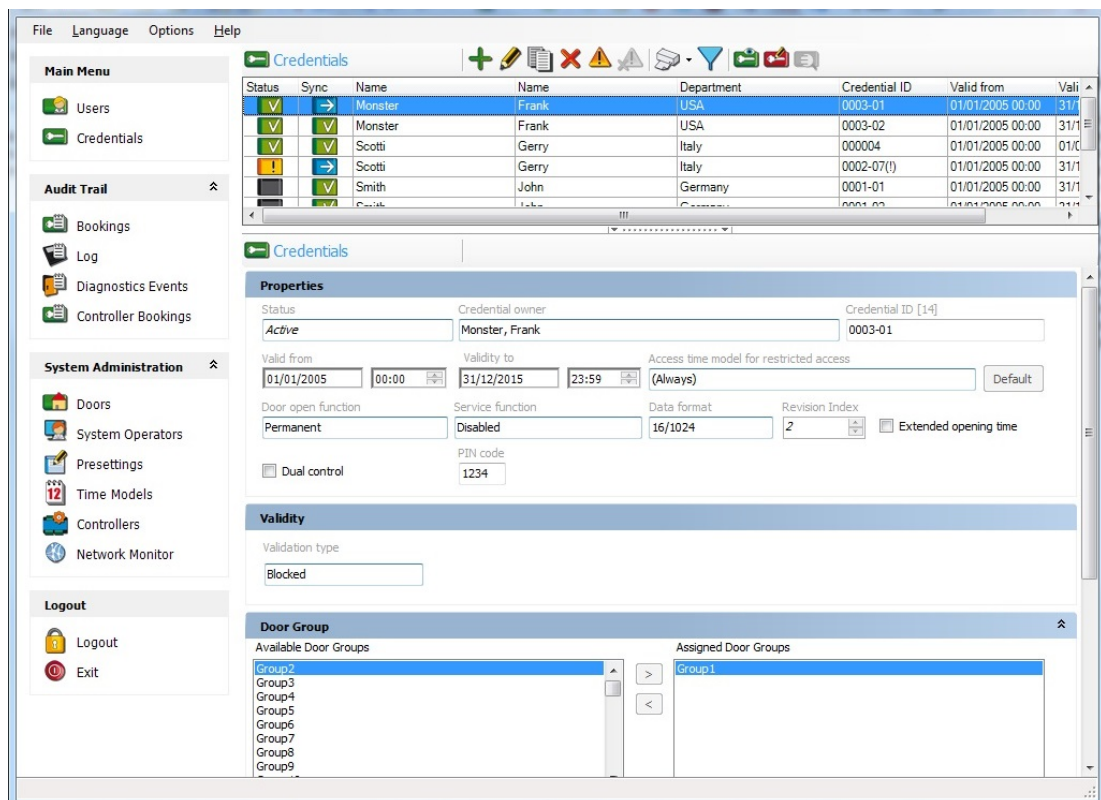
- Place an uncoded credential on the connected read/write unit.
- In the title bar, click  (Write Credential).




See also

Time Models	10
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Users: Creating a Credential for a Person	23

Credential: Assigning a Time Model

You can define time limits for the access permission by assigning a time model with time limits to the credential. The time model always refers to the time model group of the offline device.




- In the navigation pane, click on **Credentials**.
- In the selection pane, click on the desired credential to add a time model.
- In the title bar, click .
- In the **Access time model for restricted access**, select the desired time model.
- Then click on  (to save the changes) or on  (to discard the changes).

See also



Time Models	10
Creating Time Models and Time Model Groups	12

Changing a Credential

In the selection pane


- Click on the appropriate data record.
- In the title bar, click .

Continue in the dialog pane

- Change the properties of the credential as desired.
- Then click on  (to save the changes) or on  (to discard the changes).

Blocking a Credential


In the selection pane

- Click on the appropriate data record.
- In the title bar, click .
- For each additional credential to be blocked, repeat the first two steps.

Continue in the navigation pane > System Administration

- Click on **Doors**.

Continue in the selection pane

- Click on  and hold the blacklist card in front of the external read/write unit.

Continue at the offline device



- Hold the blacklist card with the new data close to the offline device.

See also


PegaSys Mobile with NFC Interface	28
---	----

Copying a Credential

In the selection pane

- Click on the permission to be copied.
- Click on  (Copy).
- Click on the credential that should receive the copied data.
- In the title bar, click  .





Continue in the dialog pane

- In the title bar, click  (Insert).

Credential Synchronization

If you run the PegaSys 3000 with the PegaSys controller online, four different credential statuses are possible. The status data is required to synchronize the physical credential and the credential data saved in the system.

The software shows the statuses in an additional column in the Credentials view. The icons in this column have the following meanings:

Icon under "Sync"	Short name	Notes
	Uncoded!	The credential data has only been created and saved in the PegaSys 3000 software, but has not been written to a physical credential yet.
	Updated!	The credential data have been written to a physical credential.
	Changed!	The credential data has changed (no format change). The physical credential has not been updated in the PegaSys 3000 software, nor at the PegaSys controller.
	New coding!	The credential data format has changed (sector, key) and has to be written again. This procedure can only be performed with the PegaSys 3000 software, not with the PegaSys controller.

See also

Integration of the PegaSys Controller29

PegaSys Mobile with NFC Interface

With a mobile PC and the *PegaSys Mobile* software, you can initialize new doors or change existing door settings. You do not need the customary service cards for this (door initialization card, blacklist card, diagnostics card, upload card).

The mobile PC with *PegaSys Mobile* reads a task file that you create in advance using the PegaSys 3000 software.

Possibilities offered by the *PegaSys Mobile* software:

- Performing and completing tasks on the basis of the task file.
- Transferring completed tasks and bookings or diagnostic information to the PegaSys 3000 system.

To this end, the PegaSys 3000 software creates the user-specific task files.


Minimum requirement for the user is the *Create System Card* permission. Users who have the additional permission *Technician Mode* can furthermore access all service functions.

You can define the path for creating the task file in the presets.



Procedure (in the "Doors" tab)

In the selection pane:

- Select the door that is to be modified.

In the title bar, click . The *PegaSys Mobile* software opens automatically. You do not have to enter a user name and password. You are automatically logged in as the current user of the PegaSys 3000 software and you can use *PegaSys Mobile* to perform the requested operations.

In the dialog pane:

- Select the desired function (in this example "Door Initialization Card").
- Then click on  (to save the changes) or on  (to discard the changes).

Information on the table columns in the "Doors" view

Doors with **Automatic** mode are open at definable times.

For new or modified doors, the checkmark at **Up-to-date** is missing, as the door only exists in the software. The check mark is set automatically when you create a door initialization card or if you initialize *PegaSys Mobile* by means of the software.

Low Battery Warning Level shows the battery status read during the last service action.

Integration of the PegaSys Controller

If you connect a PegaSys controller to the PegaSys 3000 software, all existing performance features are retained. Additionally, the following performance features are available:

- **Update:** With the PegaSys 3000 software, you can change permissions (door groups, validity etc.) of existing credentials. When a booking is made at a terminal (loading station), the new permissions are automatically written to the credential.
- **Write new:** With the PegaSys 3000 software, you can change the format of an existing credential. This changes the data structure. Therefore it is necessary to rewrite the data on the credential with the USB desktop reader.
- **Validity:** The offline segment of the credential contains a validity period. If this validity expires, the credential owner does not have access permission any more. This mechanism forces the credential owner to update the credential cyclically (e.g. daily) at the terminal (loading station). The terminal is monitored by the PegaSys 3000 software.
- **Automatic booking memory:** Bookings or transactions of the online terminals are automatically transmitted to the PegaSys 3000 software.

Note: To use all advantages of the online functionality, the PegaSys 3000 software has to be initialized with a 2.1 facility card.

See also



Presettings9

Configuration: Controller/Terminals

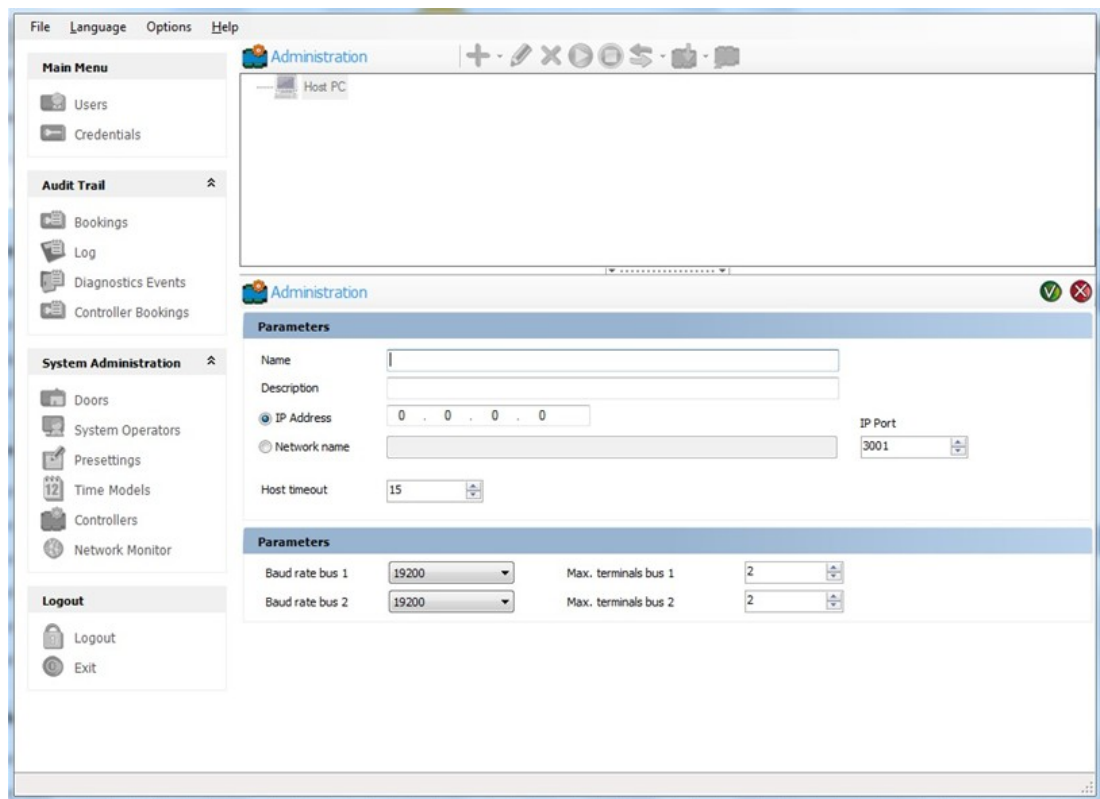
- Make sure that the SQL server has been installed and is running.
- Then only start the PegaSys 3000 software.




Procedures (overview)

When controllers and terminals are being edited, the service *PegaSys 3000 Service* has to be deactivated.

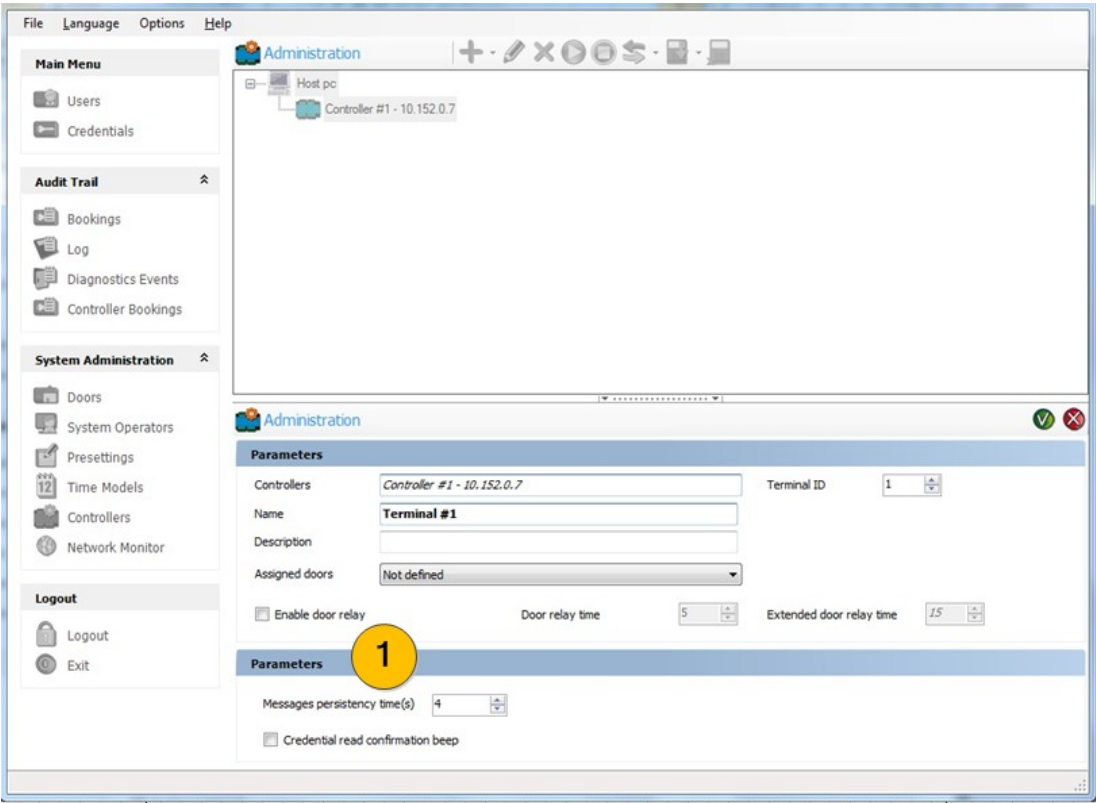
- *Stopping the service:* Click on .
If the button is gray, the service has been stopped.
- Create the required controllers and terminals (see below).
- *Starting the service:* Click on .
The software sends the configuration to all controllers and terminals and then starts the service.


Creating a controller



- In the navigation pane, under **System Administration**, click on **Doors**.
- Click on the small arrow at the  button.
- Select **Add Controller**.
- Enter a name, the description and the IP address of the controller.
- Then click on  (to save the changes) or on  (to discard the changes).

Creating a terminal



- Select the controller for the new terminal to be created.
- Click on .
- Enter the name of the terminal and a description.
- If you want to use the terminal to control access at a door, select the assigned door. Set the checkmark at **Enable door relay** and enter the appropriate relay parameters (1). After a positive access booking, the relay is active for a certain time interval (**Door relay time** or **Extended door relay time**).

If you only use the terminal as loading terminal for writing to credentials, you do not have to assign a door and the relay parameters are not relevant.

- Then click on  (to save the changes) or on  (to discard the changes).

See also

Service.....33

Access Permission at Online Terminals

You can use the relay of an online terminal to control the access at a door.

To this end, create a door in the door administration view of the PegaSys 3000 system and assign one or several *Door Groups* and a *Time Model Group* to the door - analog to the doors with offline devices.





These properties of the assigned door can be edited in the **Doors** view. This performance feature is available from firmware version 3.10 (firmware version for PegaSys controller).

Whether a credential has access permission at this door, which is controlled by an online terminal, is determined by:


- The local permission derived from the door groups.
- The time model.


Switching Online/Offline


If necessary, you can switch the controller or terminal to offline mode. These devices can then no longer be contacted online.

- *Switching to offline mode:* Click on  (in the case of a controller) or on  (in the case of a terminal).
- *Switching to online mode:* Click on  (in the case of a controller) or on  (in the case of a terminal).

Loading a Configuration

Use the  button in the *Controllers* view to load the configuration into one or several controllers.

- At the left of the application window, at **System Administration**, click **Controllers**.
- In the tree structure, click on a controller.
- Click on the down arrow of the  button.
The software opens a menu.
- Select the desired menu command (load the configuration into the selected controller or into all controllers).


Fast version for single controllers: Select the controller, and click directly on .

Firmware Update

To update the controller and terminal firmware, go to the *Controllers* view:

- At the left of the application window, at **System Administration**, click **Controllers**.


Firmware Update: PegaSys controllers

- Click on a controller.
- Click on the down arrow of the  button.
The software opens a menu.

- Select the desired menu command (firmware update at the selected controller or at all controllers).

Fast version for single controllers: Click directly on .

Firmware Update: Terminals

- Click on a terminal.
- Click on the down arrow at .
- The software opens a menu.
- Select the desired menu command (firmware update at the selected terminal or at all terminals).




Fast version for single terminals: Click directly on .

Service

With the PegaSys 3000 software (client/server installation), the Windows service *PegaSys 3000 Service* is also installed automatically. The service synchronizes the data transmission between the PegaSys controller and the PegaSys 3000 software.

Starting or stopping a service

Two versions are available (in addition to the possibilities on operating system level):

- *Start/stop in the program window of the PegaSys 3000 software:* Click on  (Start) or  (Stop) at the top of the *Controllers* view.
- *Start/stop in the information pane of the taskbar:* In the context menu (right-click) of the  icon, select the desired command.

Use this version e.g. at the server if the user interface of the PegaSys 3000 software is not running.

Proxy Server Configuration

If a proxy server is active in the network and communication problems with the PegaSys controllers occur, the following changes are necessary:




- Open the **Control Panel > Internet Options**
- Select **Connections > LAN Settings**.
- Activate the **Bypass Proxy Server for Local Addresses** option.
- Enter the address and the port of the active server.
- Click on the **Advanced** button.
- At **Exceptions**, enter the addresses of the PegaSys controller.

Network Monitor

In the **Network Monitor** view, all online components are displayed by means of icons:

- You can see the PegaSys controller with IP addresses and descriptions.
- You can see the terminals with names, IDs and descriptions.

The terminals are displayed using the following icons:

Icon	Notes
	The terminal is online.
	The terminal is offline.
	The housing of the terminal is open.

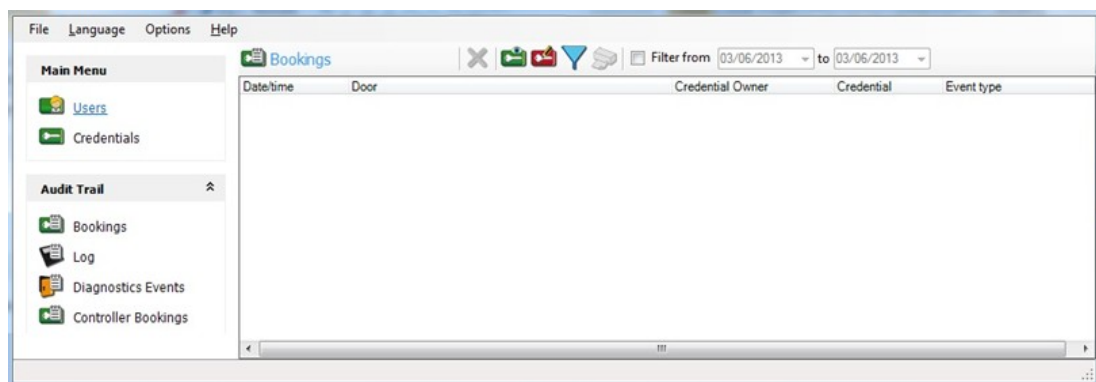
Audit Trail


In the PegaSys 3000 system, you can track the following events:

- Bookings at the offline devices (**Bookings**)
- Events and statuses of the offline devices (**Diagnostic Events**)
- Bookings at online terminals and battery messages of the offline devices (**Controller Bookings**)

Evaluation of the Booking Memory

You can transmit the booking memory of the offline device into the PegaSys 3000 system by means of upload cards and subsequently evaluate it.



- Initialize the upload card and hold the card in front of the offline device.
- In the navigation pane, under **Audit Trail**, click on **Bookings**.
- Place the upload card on the read/write unit.
- Click on .

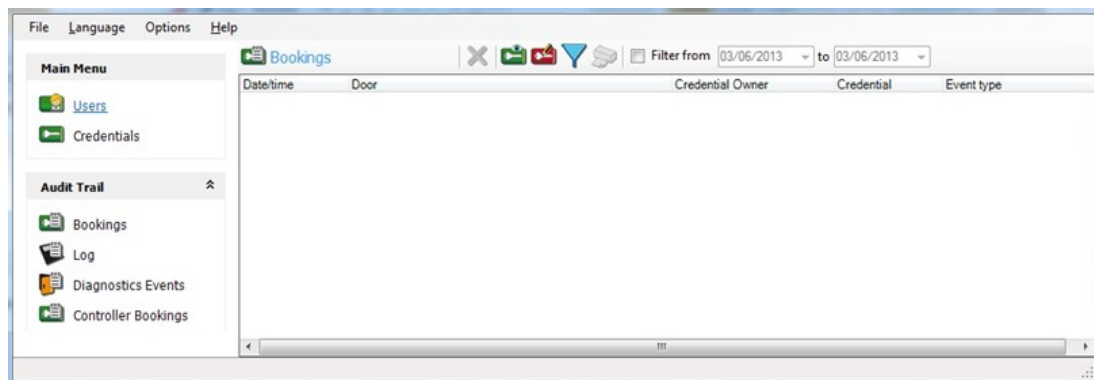
The bookings are then listed in the selection pane. Print, delete and search buttons are available for evaluation purposes.


Diagnostics Events

You can transmit the following events of the offline devices into the PegaSys 3000 system by means of diagnostics cards or *PegaSys Mobile* and subsequently evaluate it:

- Time-controlled processes (Auto open function).
- Initializations with door initialization, black lists or time initialization cards.

- Messages regarding low batteries.



- Initialize the upload card and hold the card in front of the offline device.
- Under **Audit Trail**, click **Diagnostic Events** (1).
- Place the diagnostics card on the read/write unit.
- Click on  (2).

The events are then listed in the selection pane (3). Print, delete and search buttons are available for evaluation purposes.

See also:

PegaSys Mobile with NFC Interface28

Bookings at Online Terminals and Low Battery Warnings

If the communication service of the PegaSys 3000 software is running, all bookings and transactions of the online terminal are automatically written back to the PegaSys 3000 software and displayed in the **Controller Bookings** view.

You can access this view as follows:

- In the navigation pane, under **Audit Trail**, click on **Controller Bookings**.
- Click on the **Bookings** tab.

Also heed the low battery warnings:

- Click on the **Low Battery Warnings** tab.

Pay attention to the ☒ **Save database audit trails** field in the **Presettings** view. If you set the checkmark, all bookings are automatically written to the database. If it is deactivated, the data is lost after the client logs off.

Client-Server Configuration

Use this configuration if more than one PC (client) is connected and if you use *MS SQL Server* on a separate PC (server).

Note: This configuration requires changes to the MS SQL settings. We urgently recommend that you consult the technical support or the IT department if you are not familiar with this.

See also

System Installation4

Server Configuration with SQL Server 2008

Authentication mode

During installation of MS SQL 2008, the **Authentication Mode** screen is shown. The default option is "Windows Authentication Mode".

- Switch to *Mixed Mode*.
- Enter a password further down on the screen.
- Repeat the password in the *Confirm password* field underneath.

Remote access

SQL Server Network Configuration:

- Open *Start > Programs > Microsoft SQL Server 2008 (R2) > Configuration Tools > SQL Server Configuration Manager*.
- On the left, open the *SQL Server Network Configuration*.
- Click on *Protocols* for *SQLEXPRESS*.
- Select *Named pipes* on the right and use *Enabled* to activate it.
- Repeat this process with *TCP/IP*.

SQL Native Client 10.0 Configuration:

- On the left, open the *SQL Native Client 10.0 Configuration*.
- Click on *Protocols*.
- Select *Named pipes* on the right and use *Enabled* to activate it.
- Repeat this process with *TCP/IP*.

SQL Server Services:

- On the left, open the *SQL Server Services*.
- On the right, open the *SQL Server Browser* with a double-click.
- At *Log on as -> Network Service*, select the *Built-in account* setting.
- Restart the service.
- On the left, open the *SQL Server Services* again.
- On the right, open the *SQL Server (SQLEXPRESS)* with a double-click.
- At *Log on as -> Network Service* select the *Built-in account* setting.

- Restart the service.

Client Configuration

Installing the client is less complicated than installing the server. On the client PC, you only need the PegaSys 3000 software. MS SQL is not required. The reason for this configuration is the connection to the SQL server on the server:


- Start the PegaSys 3000 software.
- Load the database settings (**Options > Database Settings ...** menu sequence)




Subsequently edit the database settings, so that the client can establish a connection with the server. In particular, pay attention to the following settings:




- Deactivate **Use local host** and enter the address of the remote server.
- Deactivate the **Windows Authentication** and enter **User Name** and **Password** as appropriate for the MS SQL installation.


LED Signals of the Offline Devices

Signals regarding user cards



 : Door opening using the single door opening function


   : Permanently open mode. Credential with default function and permanently open function.

   : Permanently closed mode. Credential with default function and permanently open function.

 (...) : Low battery warning prior to the respective LED sequence.

Special signals

  : System card successfully read or written.

 : No credential in the field of the offline device.

  : Read/write error.


   : Invalid authorization.

    : Invalid time.

     : Missing door initialization.

      : Missing facility data.

 or  : Data transmission.

 stands for a short acoustic signal (beep).

Importing/Restoring a Database

To import a database with door data etc., proceed as follows:

- At the top, in the menu bar, click **File**.
- Select the **Import Database** menu command or **Restore** command.

Import Database: For importing database files from 2000 V3.0.

Restore: For importing files from the PegaSys 3000 software.

The program then opens a window:


- Select the desired file there (mdb extension).
- Log in at the program again.

Importing a CSV File

For the data import, e.g. from external systems, use the CSV files with the following structure:

ID, first name, surname, department, creation data, info1, info2, info3, note.

The data can be imported into the PegaSys 3000 software as follows:

- In the selection pane, click on the  button (Import from File).
The software then opens the window for opening a file.
- Select the import file (file in CSV format).

Possible Problems

The network has to enable functioning communication between the computer on which the PegaSys 3000 program is running, the computer on which the database is installed and the connected online components. If errors occur, the firewall settings could be the problem.

- Check the firewall settings in acc. with the following instructions.

Recommendation: Perform this check at both participating computers.

Firewall exceptions for PegaSys 3000 and SQL Server 2005/2008

- Allow the auxiliary programs listed below to communicate through the firewall, and subsequently confirm by clicking **OK**:

SQL Server 2005:

C:\Program Files\Microsoft SQL
Server\MSSQL.1\MSSQL\Binn\sqlservr.exe

SQL Server 2008:

C:\Program Files\Microsoft SQL
Server\MSSQL10_50.SQLEXPRESS\MSSQL\Binn\ sqlservr.exe

SQL Server Browser:

C:\Program Files\Microsoft SQL Server\90\Shared\sqlbrowser.exe

PegaSys Client:

C:\Program Files\P3K\Pegasys.exe

PegaSys Service:

C:\Program Files\P3K\Pegasys_Service.exe

Firewall exceptions for ports

- To define the exceptions for the ports, check the settings in the Controllers administration tab of the PegaSys 3000 software.
- In the firewall settings of the operating system, allow the following ports:
XML RPC Port: Port 3001 and TCP.
File server port: Port 2005 and TCP.

If problems persist

If there are still problems with the communication between client and server or PegaSys controller, apply these settings to other firewall settings as well. If the problem persists, contact your IT department.

Glossary

Battery Exchange Card

For some offline devices, you need a battery exchange card to replace the battery.

Blocking List Card

If a credential must be blocked, for example because it has been lost, you have to earmark it as being blocked in the access control system. All blocked credentials are entered to a 'blocking list'. The blocking list card is used to download this list from the computer to the respective NetworkOnCard component.

As the blocking list card does not contain any device-specific data, it can be used at all NetworkOnCard components.

The data of credentials that are blocked and whose validity has already expired are not written to the blocking list card.

Credential

Collective term for a medium (such as an identity card or key tag) that contains the identification data of a person. Credentials are frequently assigned to a specific person.

CSV File

Text file with data records in lines; the data records are separated e.g. by commas.

Disassembly Card

For disassembly of certain offline devices, you need the disassembly card. Prior to disassembly, hold the disassembly card in front of the offline device briefly. This causes the offline device to switch to disassembly mode.

Door

"Door" is an umbrella term for e.g. door fittings or electronic lock cylinders.

Door Group

A door is usually assigned to a door group. The local permissions of the persons are usually controlled by means of door groups.

Door initialization card

On a door initialization card, door-specific data is saved (e.g. door number, door function, opening hours, time models, date, time, authorizations) that you have to transmit to the device. The door initialization card is created in your access control system.

Electronic Cylinders

Battery-operated electronic lock cylinder.

Facility Card

The facility card is a security card. By importing the facility card data at the NetworkOnCard reader and at the PegaSys 3000 system, you define the membership in your system.

Important: Keep your facility card in a particularly safe place. If someone imports your facility card data into his system, he can administrate your NetworkOnCard readers.

Fitting

Electronic fitting with inner/outer door handle, battery-operated.

Holiday

Holidays are days with deviating specifications for the access control.

Person

A person that is listed in the access control system and to whom access permissions have been assigned in the access control system.

Single Door

A single door is a door that is assigned directly to the person and that you do not take into account in the door group definition.

Time Initialization Card

The time initialization card transfers the date and the time specified at the time when the card was created. Use this card either immediately after its creation or at the specified time and hold it to the reading unit of the NetworkOnCard component.

A time initialization is required after a power failure at the NetworkOnCard component.

Time Model

A time model contains up to four time intervals. The person or the credential only contains a reference to the time model.

Time Model Card

The time model card uploads the date and the time defined when the card was created as well as all the time models stored on card to the NetworkOnCard components. Use this card either immediately after its creation, if possible, or at the specified time and hold it to the reading unit of the NetworkOnCard component. If different time models are used for the NetworkOnCard components, use a new time model card for each door group.

Time Model Group

A time model group contains up to 16 time models, with up to 4 possible time intervals. You assign this time model group to the door. For most applications, *one* time model group is adequate.

Upload Card

With the upload card, you can export all booking data saved in the memory of the terminal and transfer the data to the access control system. Depending on the system, the upload card can save up to 180 bookings.

User

A person that has access to the PegaSys 3000 application software.

Write/Read Unit

A desktop reader (USB) that is connected directly to the computer. With this device, you can write to and read from all system cards and credentials.

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About Allegion

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