MANUAL LSM – CARD MANAGEMENT

Version: May 2011

Simons Voss technologies

NOTE:

In the explanations of the various functions of the system, the focus is on operating the software. Please refer to the individual product manuals for descriptions of the individual product features, fittings and functions.

It is important to comply with the product approvals and system requirements when installing and operating the products. SimonsVoss accepts no liability and cannot provide support for installation or operation which deviates from these instructions.

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Please send any corrections or suggestions for improvement to Info@simons-voss.de.

Thank you in advance for your support.

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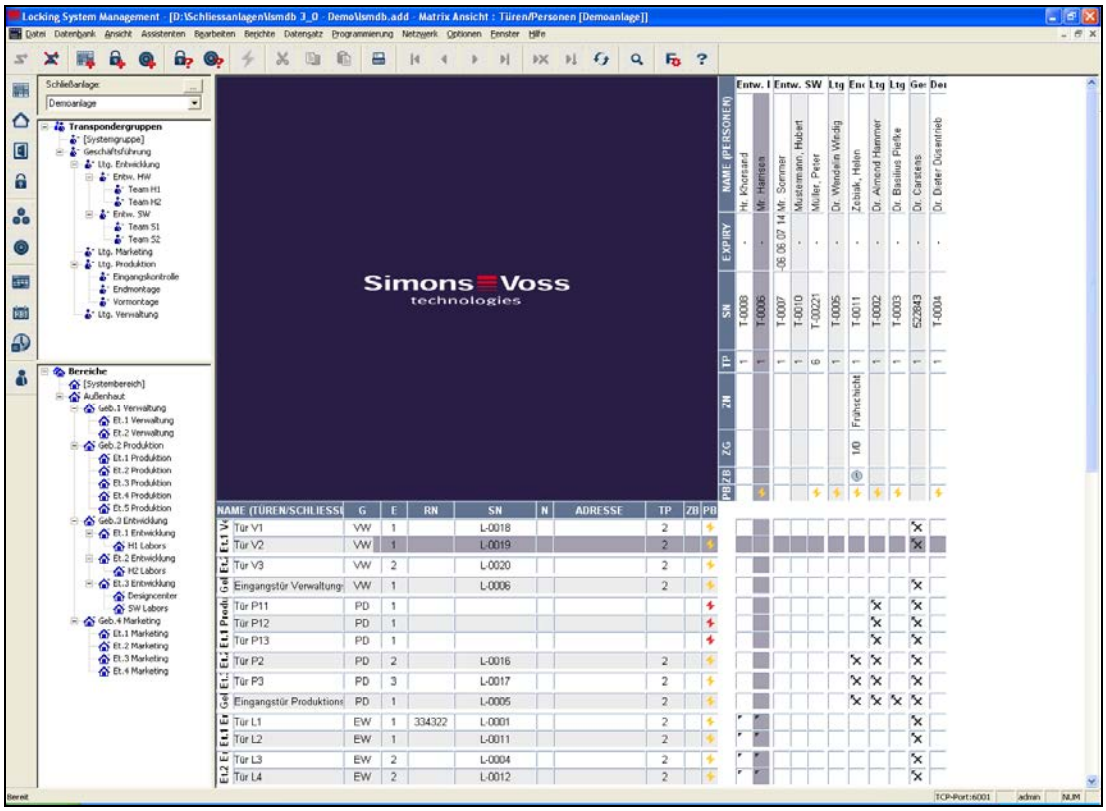
This manual applies to software without functional limitations. Functions or views in a customer's specific installation may deviate from these due to the software modules activated.

1.0 INTRODUCTION

Locking System Management (LSM) from SimonsVoss is a database-supported software package that enables you to create, manage and control complex locking plans efficiently. This documentation serves as a guide to help you structure and configure your locking plan. It will also assist you later on when it comes to monitoring and controlling the locking system, making management of the system easier.



1.1. IMPORTANT NOTE

SimonsVoss Technologies AG shall assume no liability for damage caused by incorrect assembly or installation.

Access through a door may be denied if components are incorrectly assembled or programmed. SimonsVoss AG shall assume no liability for the consequences of incorrect installation, such as denied access to injured persons or persons at risk, damage to property or any other form of damage.

2.0 UNDERSTANDING THIS MANUAL

➲ MENU ITEMS

The LSM menu items are indicated in this manual by the ➲ symbol.

EXAMPLES
➲ Edit
➲ Area

HEADINGS AND CHECKBOXES

Headings and checkboxes shown in the screenshots are differentiated by the use of inverted commas.

EXAMPLES
“User Groups”
“Areas”

BUTTONS

Buttons shown in the screenshots are highlighted in grey.

EXAMPLES
OK
Apply

KEY COMBINATIONS

The key combination you can use to start the required functions is shown in bold.

Ctrl+Shift+X

PATH SPECIFICATIONS

If an instruction refers to a directory on a drive, the path is provided in italics.

EXAMPLE
C:\Program files\SimonsVoss\LockSysGui

NOTE

The specification *[CDROM]* is a variable and describes the letter identifying the drive of the CDROM drive on the computer (e.g. “D”) on which installation is to be carried out.

3.0 ICONS

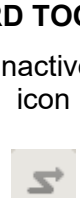
NOTE

- Icons and entries in the menu only become active once an associated object is highlighted.
- You can use Shift or Ctrl to highlight multiple table entries at the same time.
- By double-clicking in the table you can jump to the object's properties.

EDIT TOOLBAR

Active icon	Inactive icon	Function	Shortcut
		Edit locking system	**Ctrl+Shift+A**
		Area	**Ctrl+Shift+S**
		Edit door	**Ctrl+Shift+D**
		Edit lock	**Ctrl+Shift+C**
		Edit transponder group	**Ctrl+Shift+G**
		Editing transponders	**Ctrl+Shift+O**
		Edit public holiday list	
		Edit public holiday	
		Edit time zones	
		Edit person	**Ctrl+Shift+P**

3.1. STANDARD TOOLBAR

Active icon	Inactive icon	Function	Shortcut
		Log on	
		Log off	
		New locking system	
		New lock	
		New transponder	
		Read lock	**Ctrl+Shift+K**
		Read transponder	**Ctrl+Shift+R**
		Program	
		Cut	
		Copy	
		Paste	
		Print matrix	
		First data record	
		Previous data record	
		Next data record	
		Last data record	
		Remove	
		Apply	
		Update	
		Browse	
		Filter not active	
		Filter active	
		Info	

3.2. AREAS / TRANSPONDER GROUP VIEW

A black cross with a circle inside it represents group authorisation.

A grey cross with a circle inside it stands for “inherited authorisation.

3.3. DOORS / PERSONS VIEW

Authorisation that has been enabled but not yet programmed into the lock

Authorisation that has been programmed into the lock

Authorisation that has been removed and not yet transferred to the lock

Authorisations that have not yet been programmed which comply with the group structure of the locking system, in other words that originate from the group view, are indicated by a small black triangle

Programmed authorisations that comply with the group structure of the locking system, in other words that originate from the group view, are indicated by a small black triangle

Removed authorisations that comply with the group structure of the locking system and have not yet been programmed

Authorisations that do not comply with the group structure of the locking system are indicated simply by a cross, with no black triangle (individual authorisation).

Authorisations that have been subsequently withdrawn, contrary to the group structure of the locking system, feature a black triangle but no cross indicating authorisation.

White (grey) box: authorisation can be enabled here.

Checked (greyed out) box: this field no longer belongs to the locking system and no authorisations can be enabled. You have no write permission or the locking plan blocks this box (e.g. when a transponder is deactivated).

3.4. GROUP AUTHORISATION TREE VIEW

Manually enabled (black)

Directly inherited (green)

Indirectly inherited – inherited via subordinate group (blue)

Directly and indirectly inherited (blue / green)

3.5. PROGRAMMING REQUIREMENT

EXPLANATION

There are various reasons why it may be necessary to program a transponder or lock. The programming lightning symbol is shown in different colours to indicate the different reasons why programming is required.

DISPLAY

Simple programming requirement for components

Transponder:

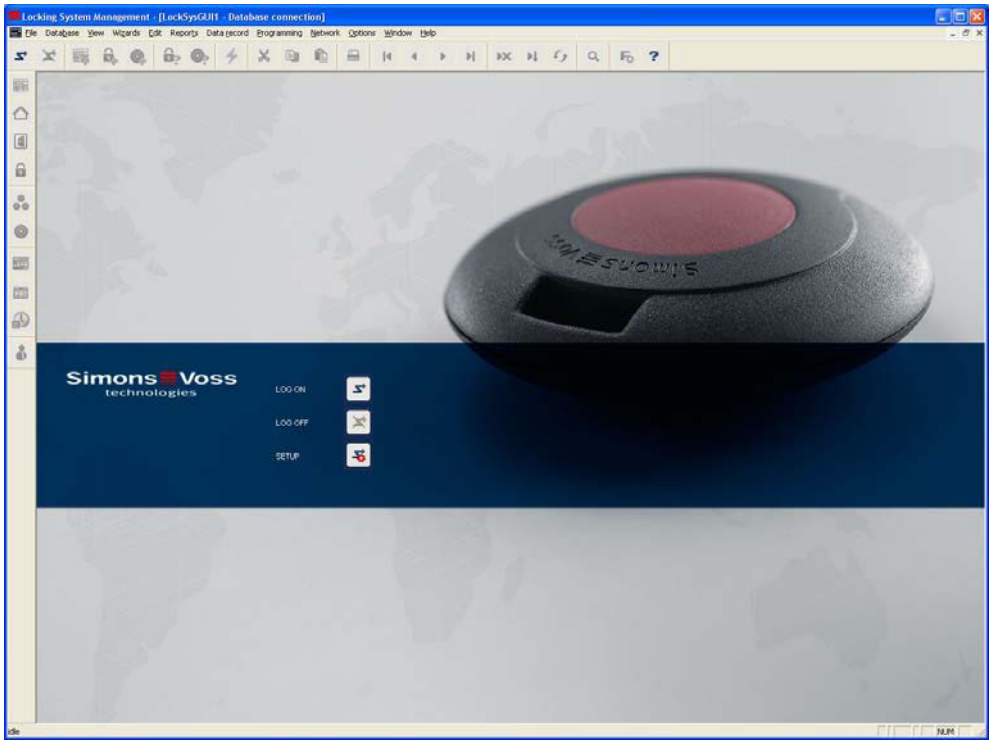
- Validity expired
- Deactivated

Lock

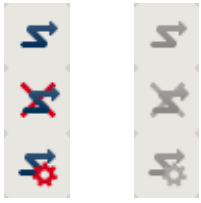
- Only overall locking level assigned
- Not assigned to any door
- Not assigned to any locking system
- Door without lock

Programming requirement on a lock after creating a replacement transponder in the overlay mode of a G1 system

4.0 SETTING UP AND OPENING THE DATABASE



START SCREED



Log on to the database, authentication then takes place when user data is entered

Log off the database

Settings for the database connection

In the Setup dialogue you can set the connection to the database you want.

Your locking system administrator provides you with the necessary information.

LSM Basic

LSM Business / LSM Professional

NOTE

The software access data should be kept safe according to the valid IT guidelines and not made accessible to unauthorised persons.

5.0 MANAGING THE LOCKING SYSTEM

5.1. LOCKING SYSTEM

5.1.1 GENERAL INFORMATION ABOUT THE LOCKING SYSTEM

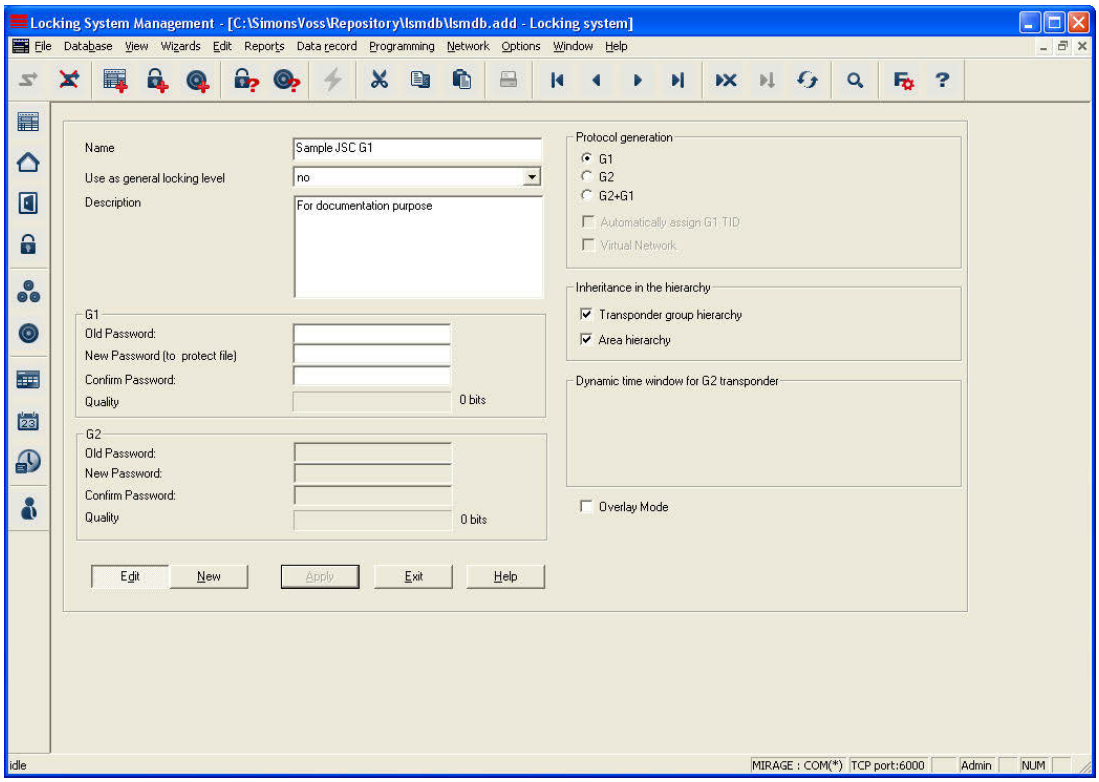
ICON 

EXPLANATION

A locking system consists of a group of locks and the associated transponders. In the software it is possible to create and manage multiple locking systems simultaneously. They are represented by a matrix.

PROCEDURE

- ➲ Edit
- ➲ Locking system



EXPLANATION

“Name”	→	Designation of locking system
“Use as overall locking level”	→	Determines the overall locking level
“Description”	→	Free field for describing the locking system
Log generation	→	Details of the log generation to be used for hardware components: G1, G2 or G1+G2 The card medium is only available for G1
“Inheritance in the hierarchy”	→	Authorisations from lower levels are passed on to the superordinate levels
“	→	Activates overlay mode
Enter the passwords for the individual log generations		
“Old password “ “	→	If you change the password for the locking system, the existing password is entered here
“New password”	→	If you change the password for the locking system, the new password is entered here
“Confirm”	→	Re-enter the password to confirm it
“Quality”	→	Indicator (red to green) to show how secure the password is, at least 64 bits is required

5.1.2 LOCKING SYSTEM PROPERTIES

EXPLANATION

In the locking system properties you can modify or view all information relating to the locking system. You can navigate to the individual properties using the tabs at the top.

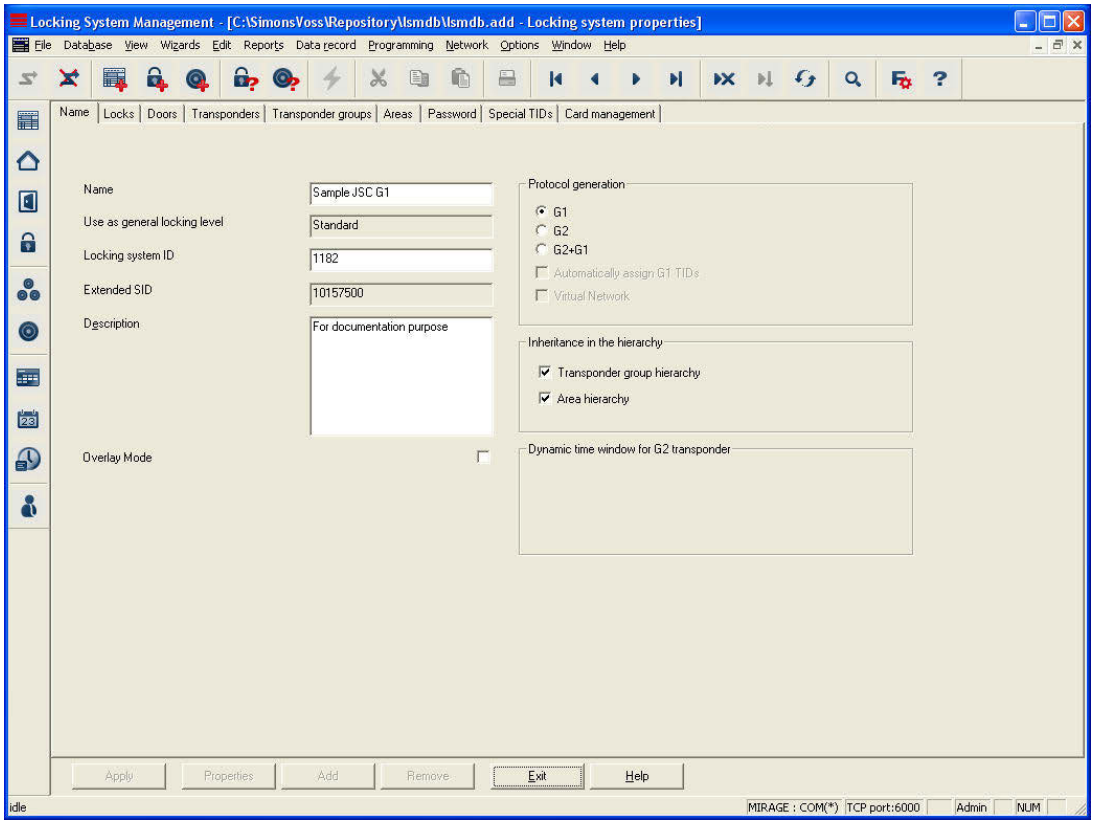
PROCEDURE

- ➲ Edit
- ➲ Locking system properties

or

- Right-click on the locking system icon in the hierarchy tree
- Left-click on Properties

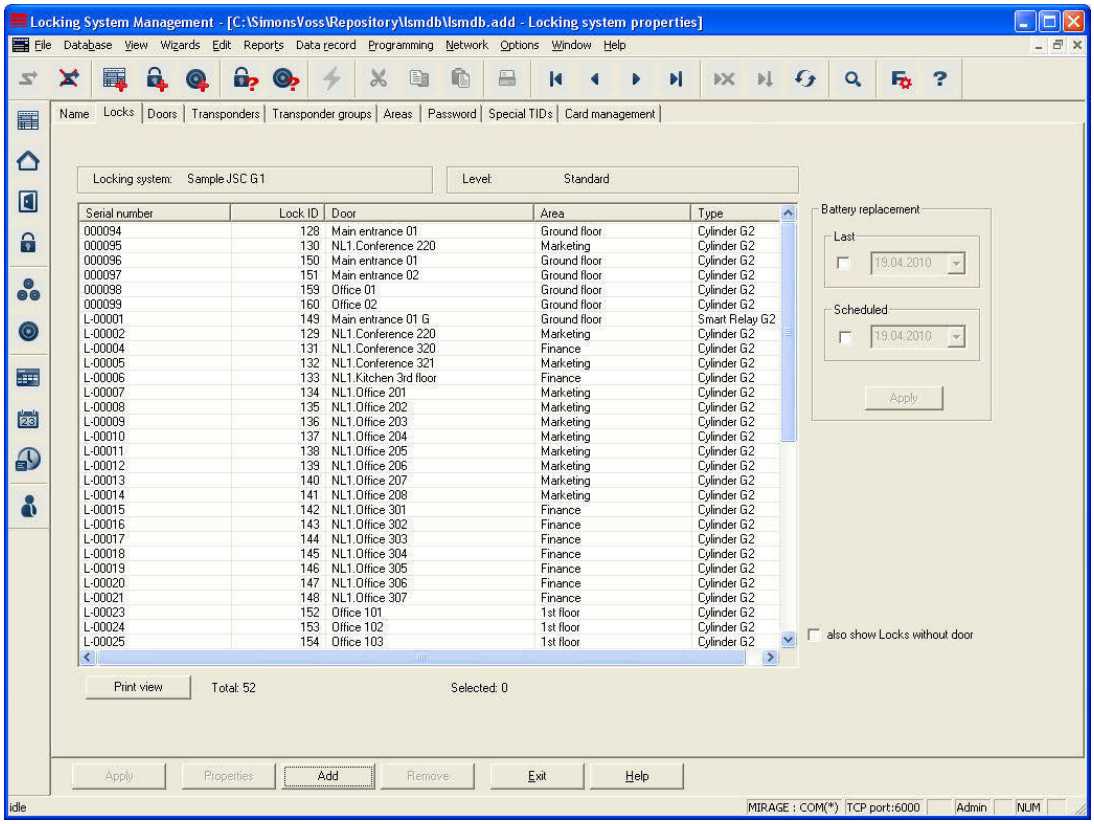
LOCKING SYSTEM – NAME



EXPLANATION

“Name”	→	Designation of locking system
“Use as overall locking level”	→	Determines the overall locking level
“Locking system ID”	→	Number of locking system
“Extended locking system ID”	→	Internal number of locking system as an additional distinguishing feature
“Description”	→	Free field for describing the locking system
“Operate in overlay mode”	→	Activates overlay mode

LOCKING SYSTEM – LOCKS



EXPLANATION

Table	→	Overview of all locks in the locking system
“Battery change”	→	The date of the battery change can be entered under “Last”. “Scheduled” battery changes are shown in the warning monitor and the action list for each lock. In the action list for a particular lock you can also enter the last and a scheduled battery change for several locks at the same time.

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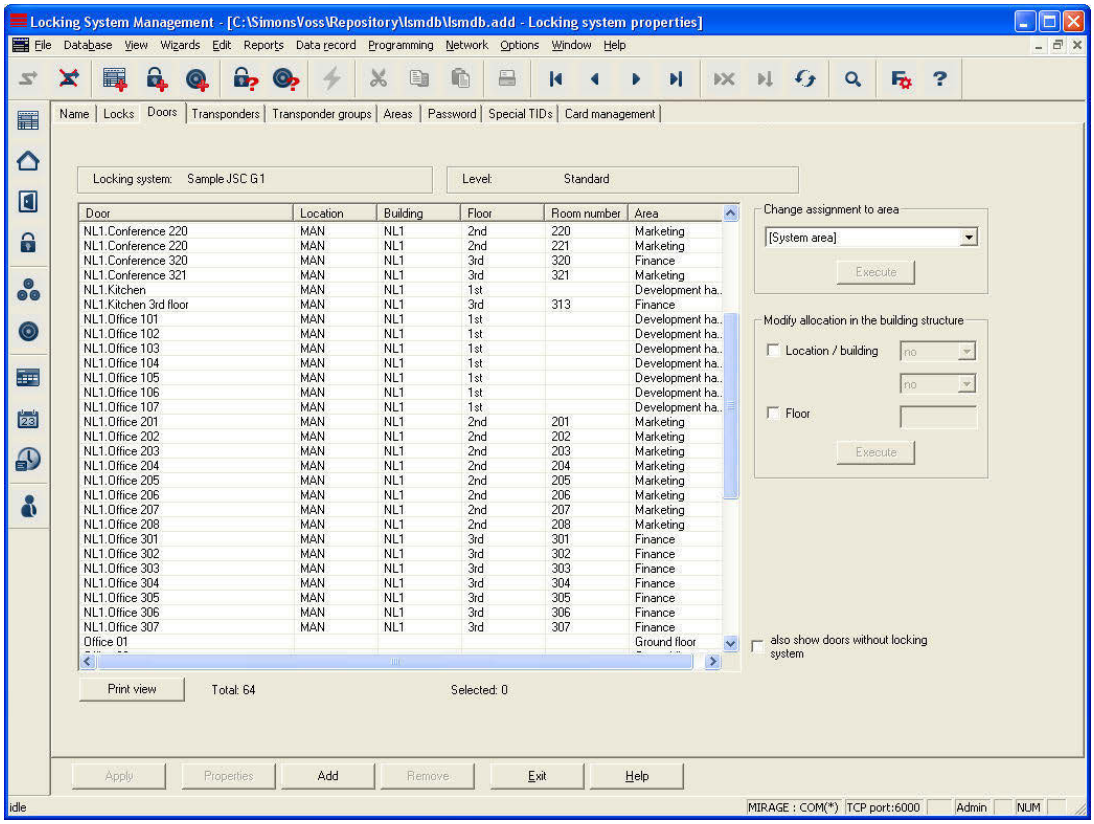
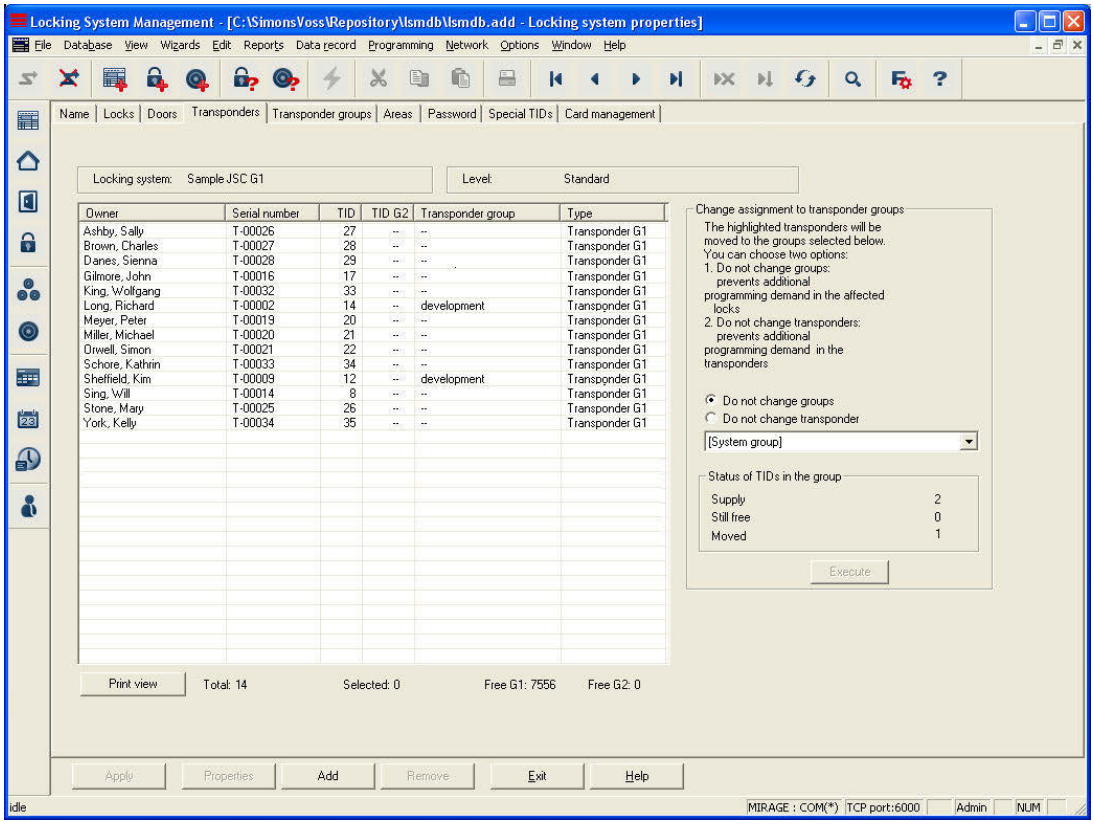
LOCKING SYSTEM – DOORS



EXPLANATION

Table	→	Overview of all doors in the locking system
“Assignment to area...”	→	You can change the area assignment of one or more doors at the same time.
“Change assignment in the building structure”	→	You can change the building assignment or floor of one or more doors at the same time.

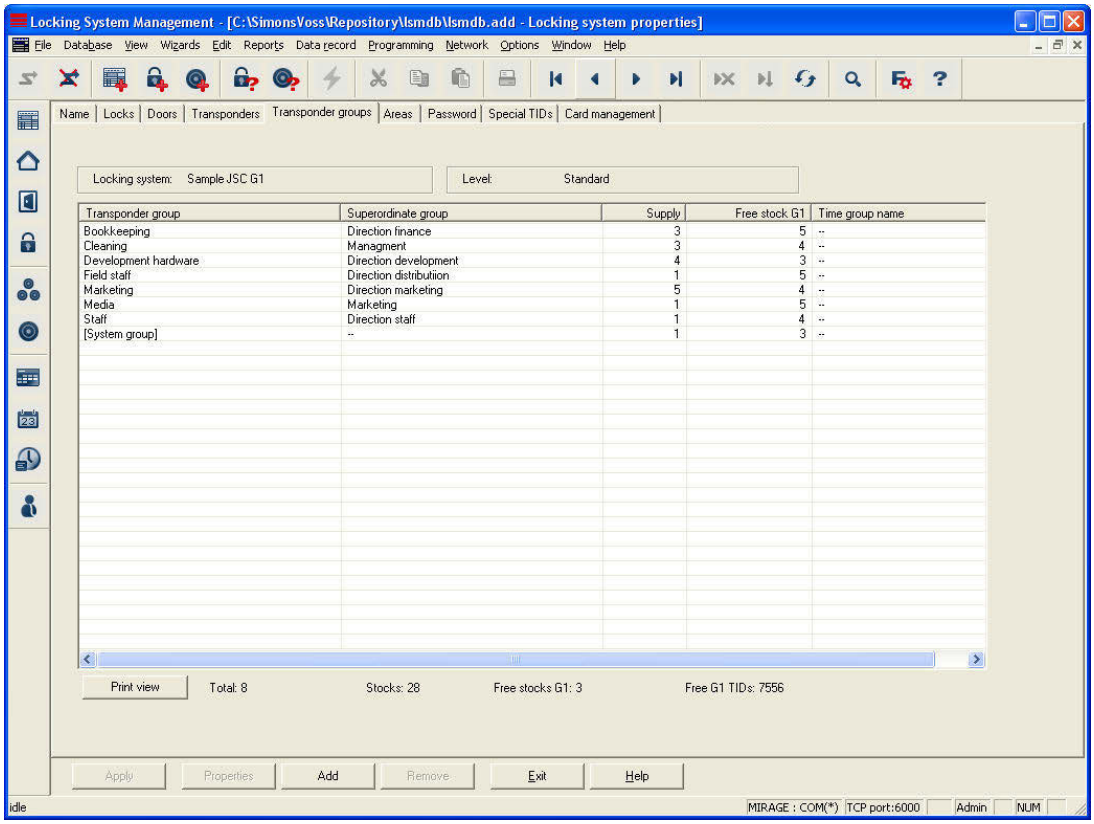
LOCKING SYSTEM – TRANSPONDERS



EXPLANATION

Table	→	Overview of all transponders in the locking system
“Do not modify groups”	→	The selected transponder(s) are relocated to a different group. The transponders are given a TID from the reserve for the new transponder group. This means the transponders will need to be programmed.
“Do not modify transponders”	→	The selected transponder(s) are relocated to a different group. The transponders keep the same transponder ID. This means the locks for which the transponder’s old and new transponder groups are or were authorised will need to be programmed.

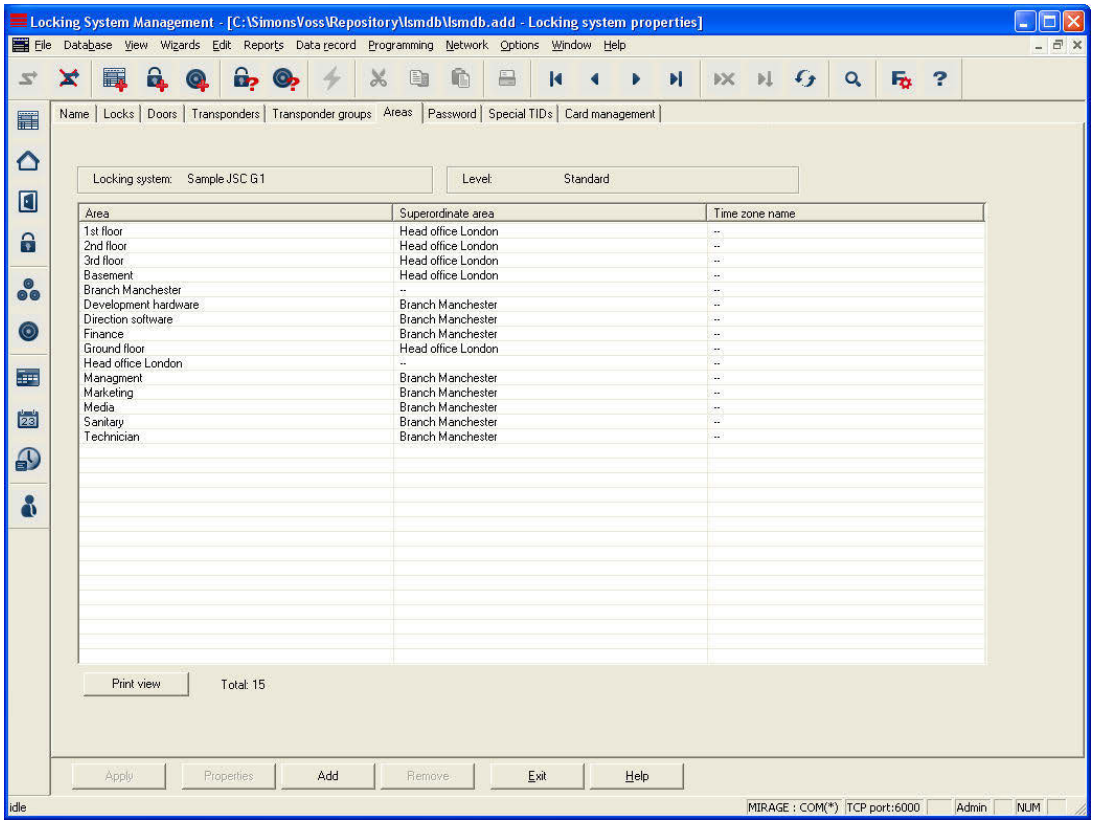
LOCKING SYSTEM – TRANSPONDER GROUPS



EXPLANATION

Table	→	Overview of all transponder groups in the locking system

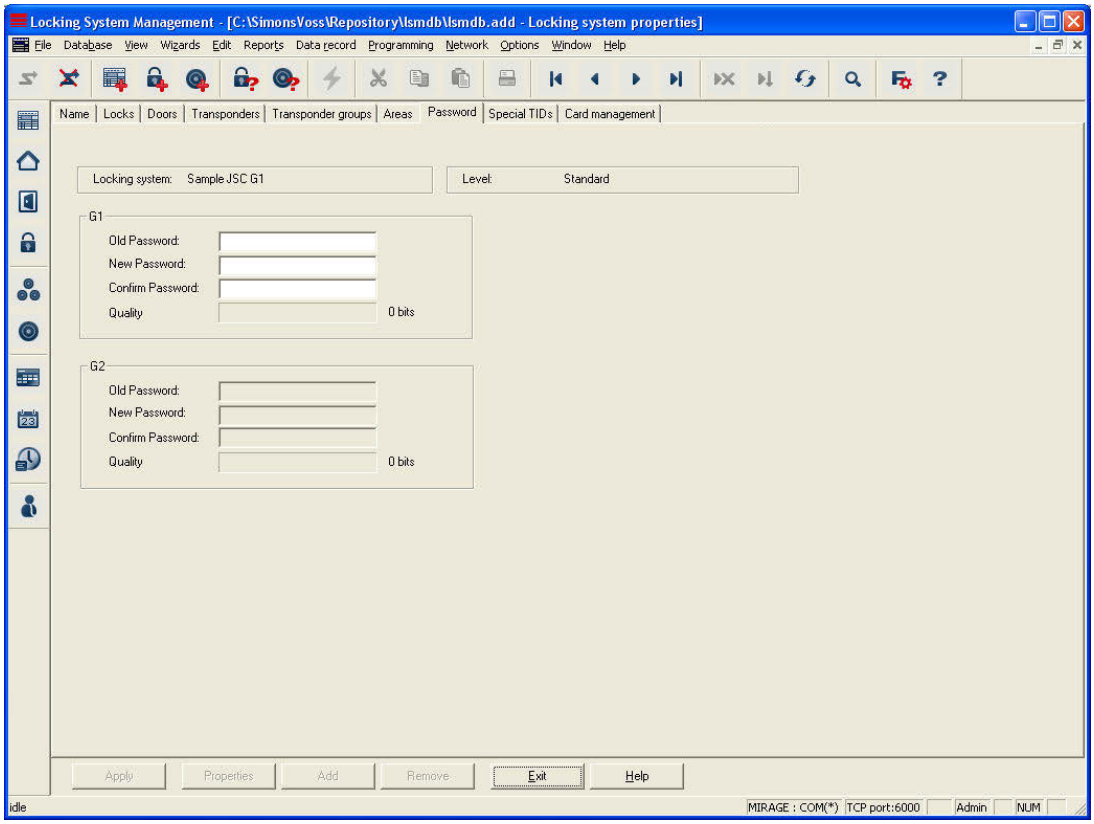
LOCKING SYSTEM – AREAS



EXPLANATION

Table	→	Overview of all of the areas in the locking system

LOCKING SYSTEM – PASSWORD

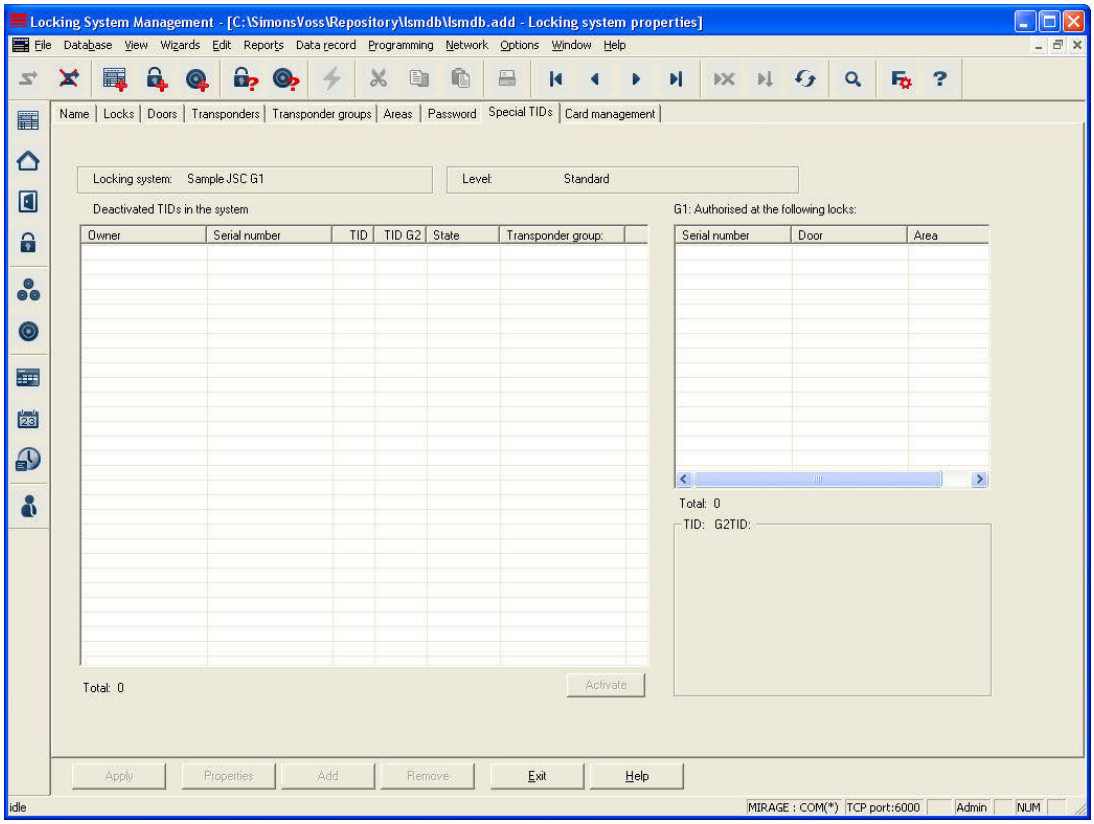


EXPLANATION

Here, you can change the locking system password used to program components.

Please note:
If you change the password of an existing locking system with programmed components, all available components (locks, transponders, …) must be reprogrammed.

LOCKING SYSTEM – SPECIAL TIDS

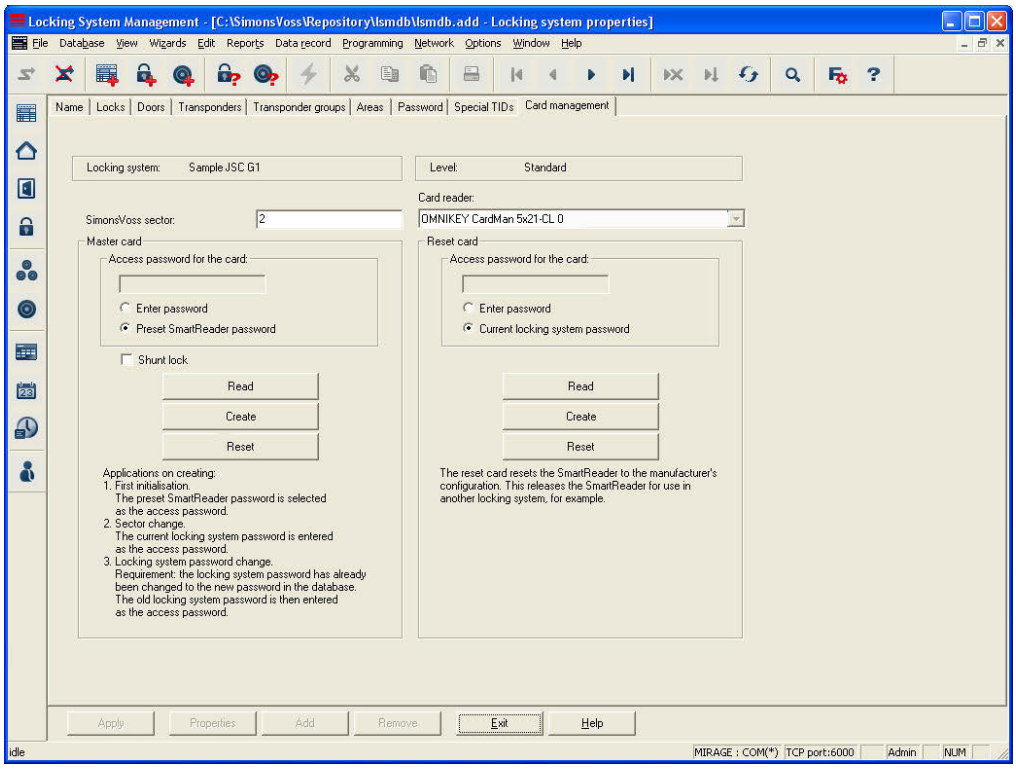


EXPLANATION

Left-hand table	→	Overview of all the transponder IDs that are no longer active
Right-hand table	→	Overview of all the locks for which the selected transponders in the right-hand table are authorised. You can implement restrictions by selecting “Locks” in the middle of the window
“All”	→	All of the transponders are displayed in the left-hand table
“Deactivated”	→	Only the deactivated transponders are displayed in the left-hand table
“Activated”	→	Only the active transponders are displayed in the left-hand table
“Target”	→	All of the locks for which the selected transponder is authorised in the matrix are displayed
“Actual”	→	All of the locks for which the transponder is actually authorised are displayed

LOCKING SYSTEM – G1 CARD MANAGEMENT

In this view, you can make all of the basic settings which will also enable you to use a card as a key medium in a G1 locking system. You must only use the device approved by SimonsVoss to program the approved cards. This can be ordered using the product name SmartCD.C.



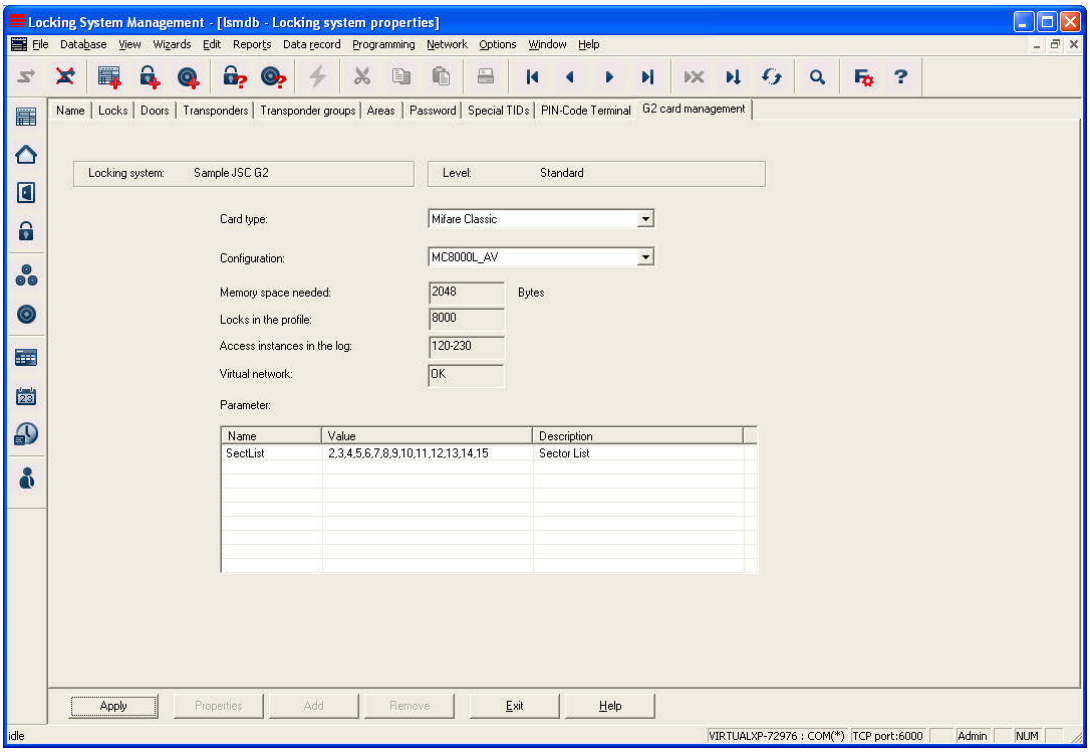
EXPLANATION

"SimonsVoss sector"	→	Determines the sector used by the card
"Card reader"	→	Determines the standard programming device for cards (OMNIKEY CardMan 5x21-CL 0)
Master card	→	You can use a master card to approve the Smart Readers also required for the locks in the locking system. Only then can the locks evaluate the information on the user card.
"Access password"	→	This password protects access to the master sector of the card.
"Enter password"	→	Here you can manually enter an access password for the Smart Reader.
"Preset Smart Reader password"	→	Uses the standard SimonsVoss password to initialise the Smart Reader.

“Shunt lock”	→	This setting prepares the Smart Reader to be used in conjunction with an activation unit.
Read	→	Reads an available card and checks the master sector
Create	→	Creates a master card
Reset	→	Resets a programmed master card
Reset card	→	A reset card is used to reset the assigned Smart Readers in a locking system. They can then continue to be used in other systems or after the password has been changed.
“Access password”	→	This password protects access to the master sector of the card.
“Enter password”	→	Here you can manually enter an access password for the Smart Reader.
“Current locking system password”	→	Uses the locking system password to reset the Smart Reader.
Read	→	Reads and checks an available card
Create	→	Creates a reset card
Reset	→	Resets a programmed reset card

LOCKING SYSTEM – G2 CARD MANAGEMENT

In this view, you can make all of the basic settings which will also enable you to use a card as a key medium in a G2 locking system. You must only use the device approved by SimonsVoss to program the approved cards. This can be ordered using the product name SmartCD.HF.



EXPLANATION

Card type	→	Select the card used
Configuration	→	Configuration name for splitting up the card's memory
Memory requirement	→	Required memory on the card
Locks in the profile	→	Number of locks that can be stored on the card
Access instances in the log	→	Number of access instances that can be saved on the card
Virtual network	→	Use of the "virtual network" function
Parameters	→	Details of the card configuration are displayed in the table

Select the configuration depending on how you want to use it in the individual projects. Please refer to the product manuals or ask your dealer to find out about the differences between the individual configurations. The setting always applies to the entire system. If you make a change, you have to reprogram the system.

5.2. TRANSPONDERS

5.2.1 GENERAL

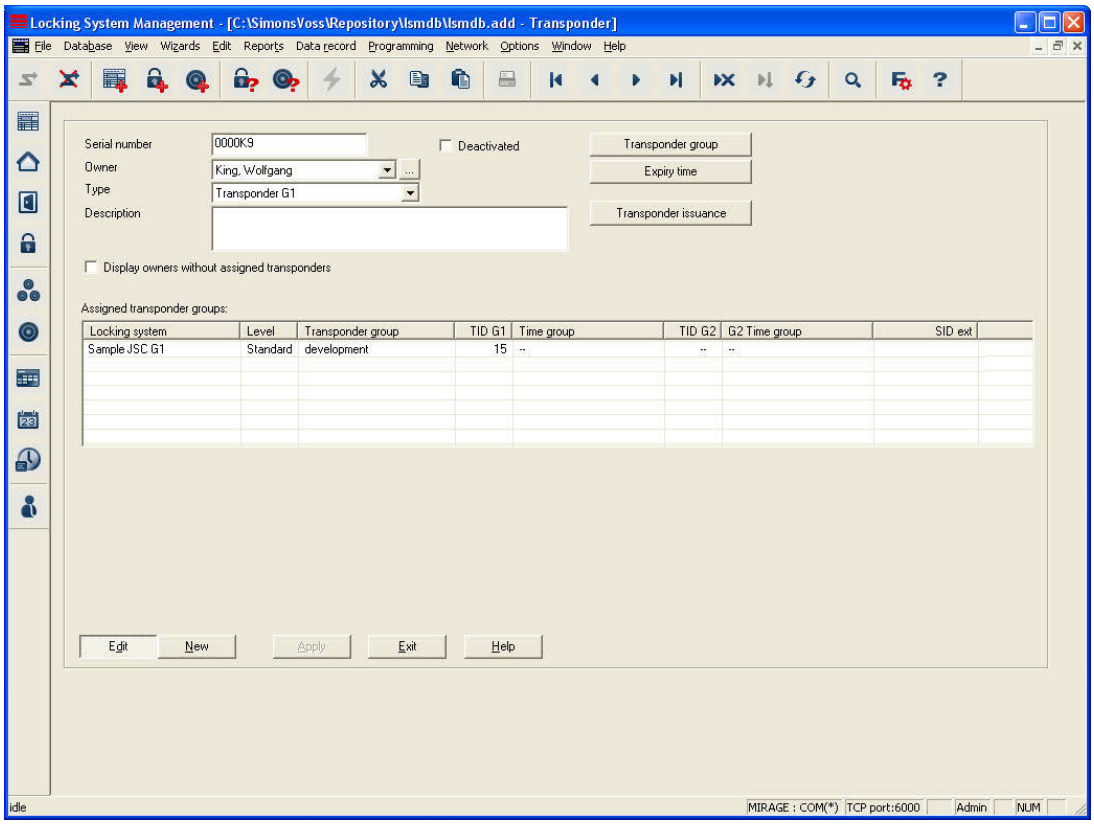
ICON 

EXPLANATION

Transponders are the “keys” for digital locking systems. You can use transponders to operate digital locks. At SimonsVoss, the term transponders also includes cards as passive media. Where features apply only to cards, this is specifically indicated, but in all other cases, the explanations apply to both a transponder and the card medium.

PROCEDURE

- ➲ Edit
- ➲ Transponders



EXPLANATION

"Serial number"	→	Serial number of transponder
"Owner"	→	Person transponder is assigned to
"…"	→	Jumps to properties for person
"Type"	→	Type of transponder, e.g. card
"Description"	→	Free field for describing the transponder
"Assigned transponder gr."	→	Transponder group to which transponder belongs
"Deactivated"	→	Indicates whether transponder is deactivated or not
"Owner without assigned…."	→	Filter for selecting owners
Transponder group	→	Option of moving transponder to a different transponder group.
Period of validity	→	Period in which the transponder functions (not possible for cards)
Transponder issue	→	Displays the form to be signed

5.2.2 TRANSPONDER PROPERTIES

EXPLANATION

In the transponder properties you can modify or view all information relating to the transponder. You can navigate to the individual properties using the tabs at the top.

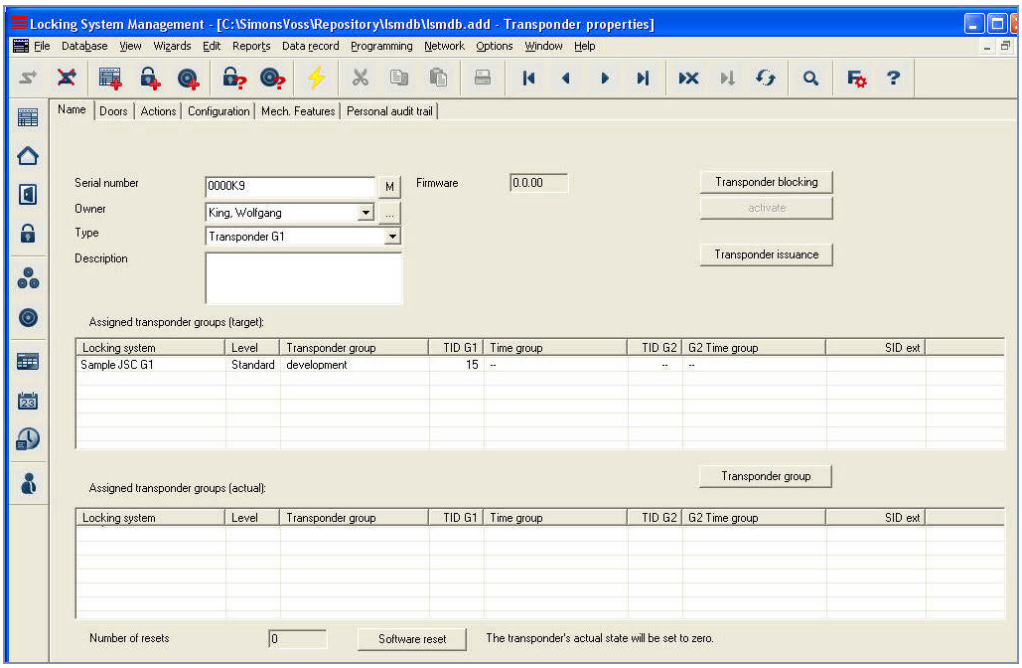
PROCEDURE

- ➲ Edit
- ➲ Transponder properties

or

- Right-click on the person / transponder
- Left-click on Properties
- Left-click on Transponder

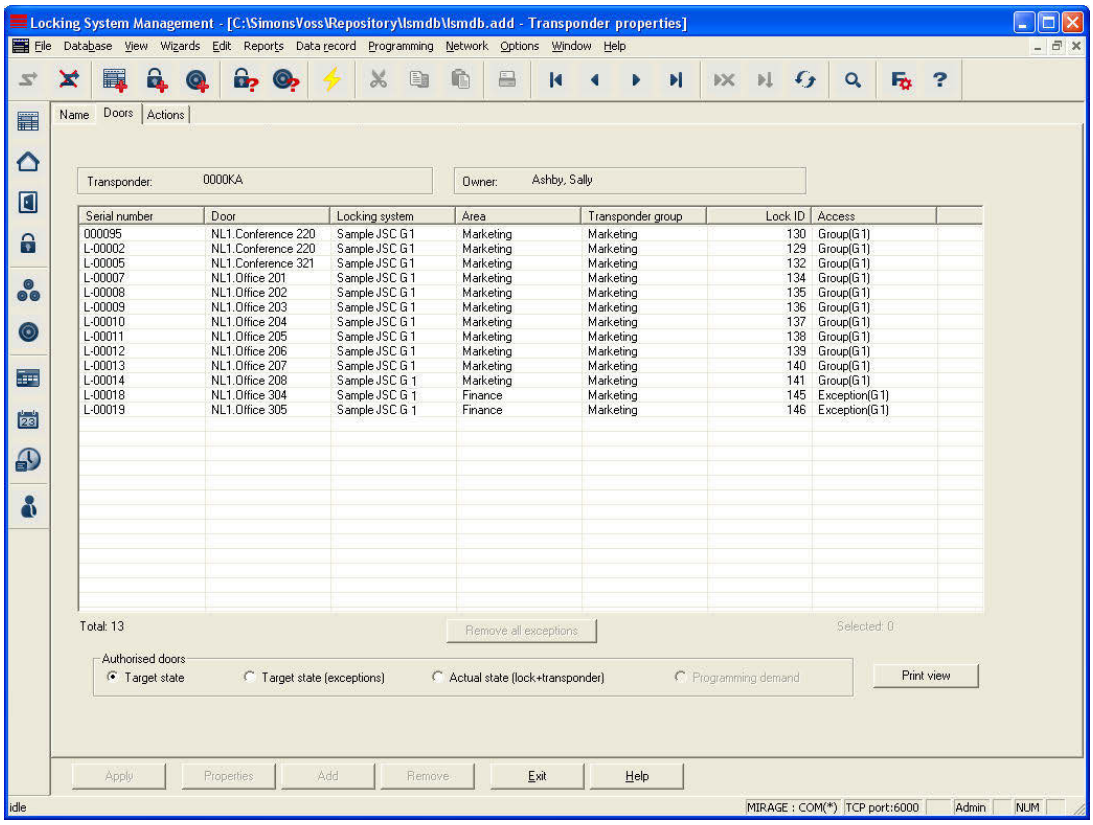
TRANSPONDERS – NAME



EXPLANATION

"Serial number"	→	Serial number of transponder
"M"	→	Indicates the transponder in the matrix
"Firmware"	→	Firmware version of the programmed transponder
"Owner"	→	Person transponder is assigned to
"…"	→	Links to the properties for the person
"Type"	→	Type of transponder
"Description"	→	Free field for describing the transponder
Deactivate	→	Button for deactivating a transponder
Activate	→	Button for activating a transponder
Transponder issue	→	Displays the form to be signed
"Assigned transponder gr. (target)"	→	Target status: intended assignment of transponder to a transponder group
"Assigned transponder gr. (actual)"	→	Actual status: current assignment of transponder to a transponder group
Software reset !! Only perform a reset if a transponder is defective, otherwise copies could come into circulation!!	→	Switch for resetting the software's actual status. This procedure is counted and displayed on the left.

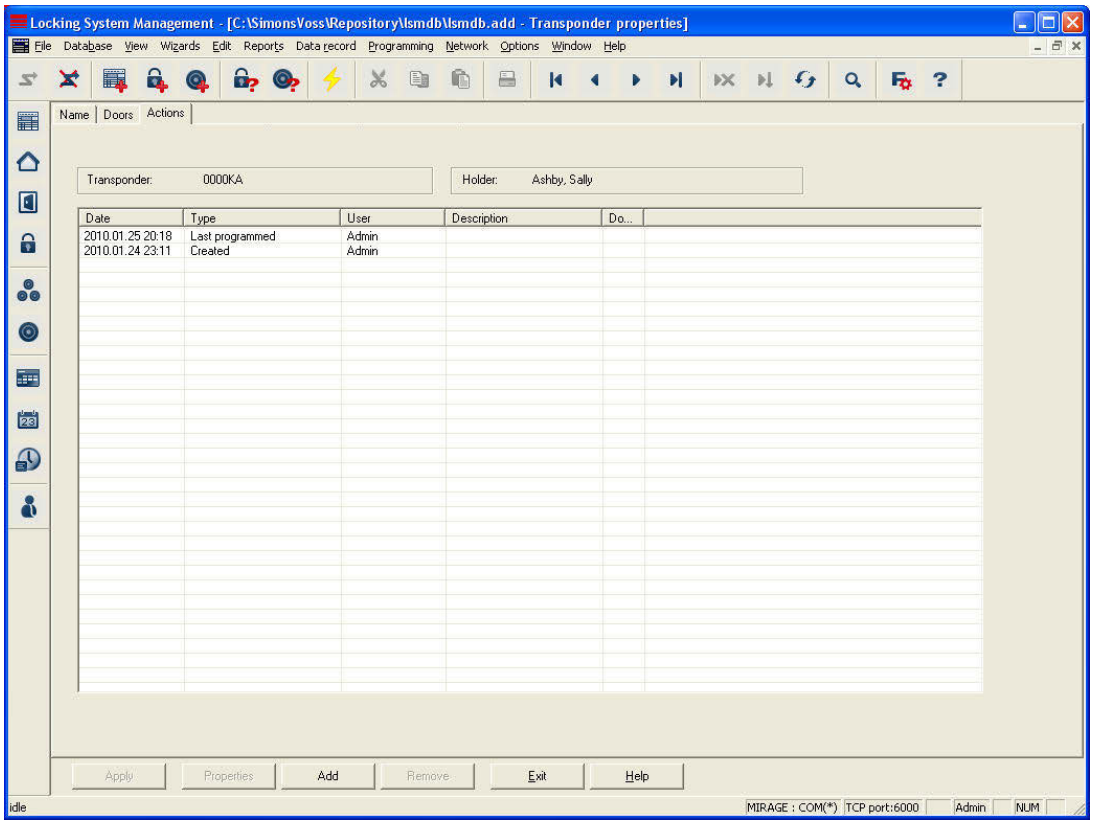
TRANSPONDERS – DOORS



EXPLANATION

“Transponder”	→	Serial number of transponder
“Owner”	→	Person transponder is assigned to
Table		
“Authorised doors”	→	Selectable display. Target status: Displays the intended authorisations on locks Target status (exceptions): Displays the intended authorisations on locks based on changes to the group rights Actual status Displays the authorisations still to be programmed on the locks
“Print view”	→	Displays the table in a print-friendly view

TRANSPONDERS – ACTIONS



EXPLANATION

Table	→	Provides an overview of the actions performed on the transponder. Entries can be created automatically or manually.
Add	→	Add can be used to create manual entries
Remove	→	Remove can be used to delete manual entries

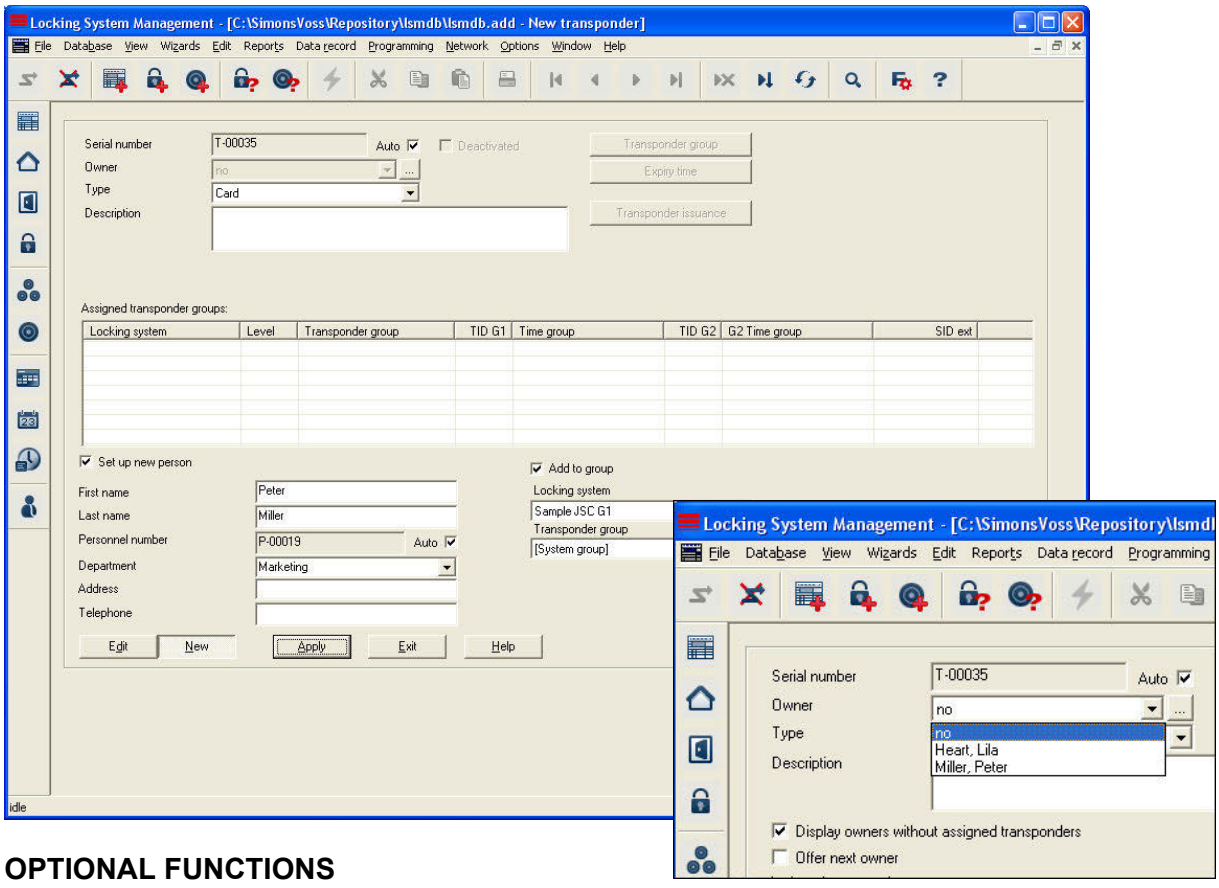
POSSIBLE MANUAL ACTIONS

- Issue
- Withdrawal implemented
- Withdrawal planned

5.2.3 CREATING TRANSPONDERS

PROCEDURE

- ➲ Edit
- ➲ Transponders
- New
- For the serial number enter the number of the transponder or leave the default number
- Select person
- Select the type of transponder
- Enter a description



OPTIONAL FUNCTIONS

- Display and select an existing owner
- Create new person
- Select locking system
- Select transponder group

When you click Apply the transponder is saved. You can create another transponder, as the New button has already been activated.

EXPLANATION

"Create new person" – (first name, surname...)	→	Personal details of person
"Add to group" – locking system	→	Locking system in which the person is created
"Add to group" – transponder group	→	Transponder group in which the person is created

5.2.4 EDITING TRANSPONDERS

PROCEDURE

- Select icon 
- Select transponder using arrow buttons 

or

- ➲ Edit
- ➲ Transponder properties
- Select transponder using arrow buttons 

or

- Select the person you want to modify in the matrix
- Right-click
- Left-click on "Properties"
- Left-click on Transponder

or

- Select the person you want to modify in the matrix
- **Ctrl+Shift+O**

or

- Right-click on any transponder in the matrix
- Left-click on "Search"
- Select object
- Define property (e.g. surname)
- Enter designation or part of designation you want to search for
- Search
- Highlight the data record you want in the result set
- Select properties in "Navigation to view"
- Click on Execute to go to the transponder overview

then

- Modify data
- Apply

5.3. PERSONS

5.3.1 GENERAL INFORMATION ABOUT PERSONS

ICON 

EXPLANATION

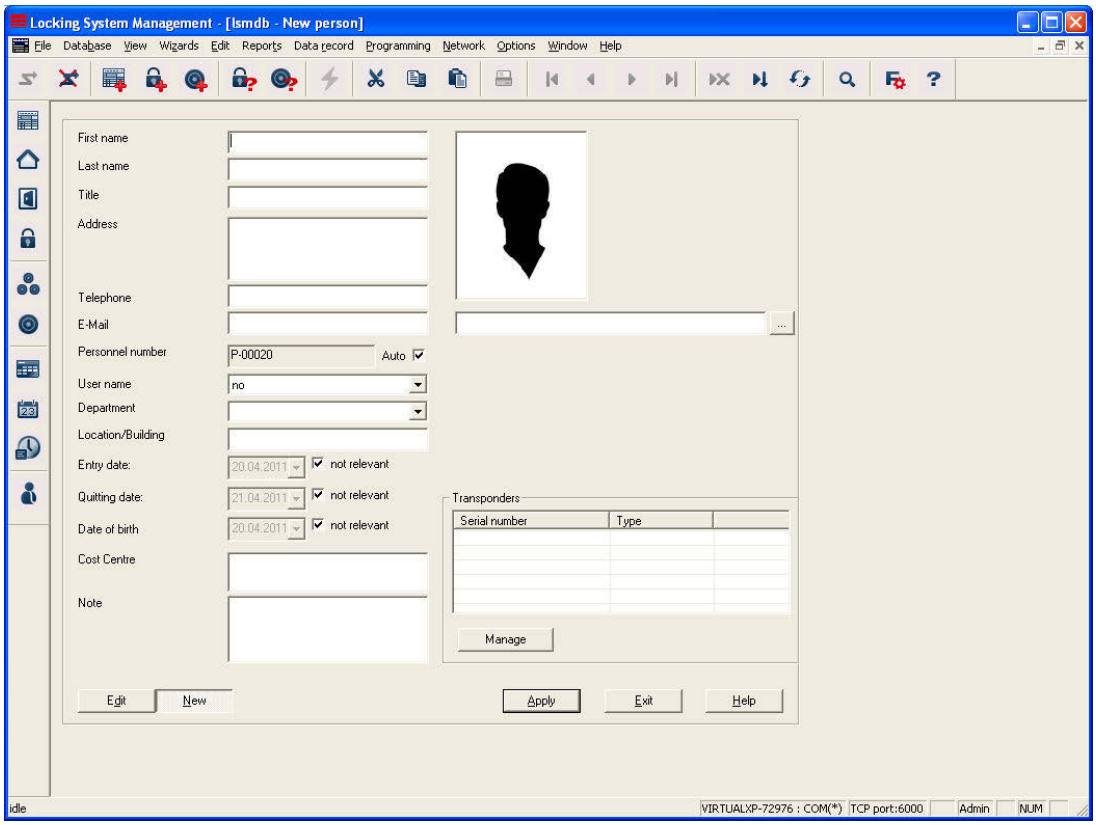
The person is used to manage additional information and is the assigned owner of one or more transponders.

PROCEDURE

- ➲ Edit
- ➲ Person

or

- Right-click on a person
- Left-click on “Properties”
- Left-click on “Person”



EXPLANATION

“First name” → First name of transponder owner

“Surname”	→	Surname of transponder owner
“Title”	→	Academic salutation of transponder owner
“Address”	→	Address of transponder owner
“Tel”	→	Phone number of transponder owner
“E-mail”	→	E-mail of transponder owner
“Employee number”	→	Employee number (must be unique), can be modified
“User name”	→	Specifies whether the person is also an LSM user
“Department”	→	Department of transponder owner
“Site/Building”	→	Site/building in which the transponder owner is located
“Employed from”	→	Start date of employment contract
“Employed until”	→	End date of employment contract
“Date of birth”	→	Date of birth of transponder owner
“Cost centre”	→	Cost centre of transponder owner
“Comments”	→	Free field for describing the transponder owner
Image	→	You can store images of individual persons here.
…	→	The name of the selected image is displayed here. The storage location for the images is defined in the ➲Options ➲ Advanced menu (either in the database or in a directory on an available data carrier).
“Transponder” table	→	Overview of the assigned transponders
Manage	→	Transponders can be added or removed

5.3.2 CREATING A PERSON

PROCEDURE

- Edit
- Person

or

- **Ctrl+Shift+P**

then

- New
- In Manage, select a free transponder if necessary
- Enter details of person
- Apply
- New

5.3.3 EDITING PERSONS

PROCEDURE

- Select icon 
- Select person using arrow buttons 

or

- ➲ Edit
- ➲ Person
- Select person using arrow buttons 

or

- Select the person you want to modify in the matrix
- Right-click
- ➲ Properties
- ➲ Person

or

- Right-click on any person in the matrix
- ➲ Search
- Select object
- Enter designation or part of designation you want to search for
- Search
- Highlight the data record you want in the result set
- Select properties in “Navigation to view”
- Click on Execute to go to the person overview

then

- Modify data
- Apply

6.0 PROGRAMMING PROCESSES

6.1. GENERAL

EXPLANATION

A programming requirement applies when a right is modified and a component has not yet been programmed, or if the software detects a difference between the actual and target status. Before programming it is important to ensure that the view is up to date and the data has been backed up.

ICON

PROCEDURE

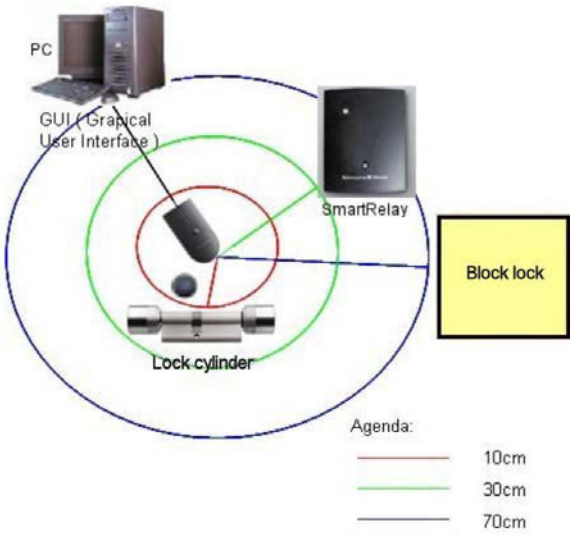
(To display the programming requirement in the matrix)

- ➲ Options
- ➲ Extra columns
- Select object
- Programming requirement

6.2. POSITIONING COMPONENTS

EXPLANATION

To achieve optimum results and avoid programming errors , a defined distance should be maintained between the programming device and the components you want to program.



NOTE

If the distance is too little or too great, errors may occur. When programming the card, please lay the card on the SmartCD.C or SmartCD.HF.

6.3. G1 CARDS

6.3.1 PROGRAMMING

EXPLANATION

When you program the card, you tell it what its transponder ID is, which locking system it belongs to, what the password for the locking system is and which time group it belongs to.

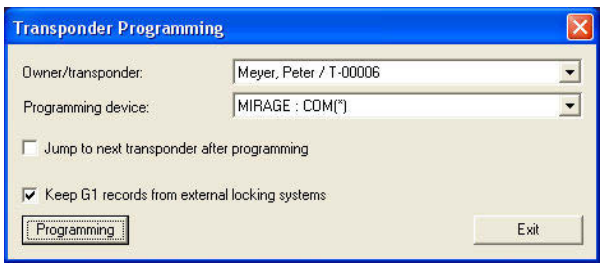
ICON

PROCEDURE

- Position card (see 2.2 Positioning components)
- Select card in matrix
- ➲ Programming
- ➲ Transponders
- Program

or

- Position card (see 2.2 Positioning components)
- Select card in matrix
- ➲ Click on the programming lightning icon in the toolbar
- Program



EXPLANATION

"Owner / Transponder"	→	The owner and the serial number of the card are displayed and can be selected. If a card has already been programmed, the owner and UID are displayed
"Programming device"	→	The programming device required for the medium is automatically selected.
"After programming..."	→	When this option is selected, you jump to the next unprogrammed transponder (in alphabetical order) and the window stays open

“Data records from other ...”	→	When this option is selected, data records from other locking systems are not overwritten. An additional data record is written when you program the transponder, assuming that there is another free data record available (does not apply to cards)

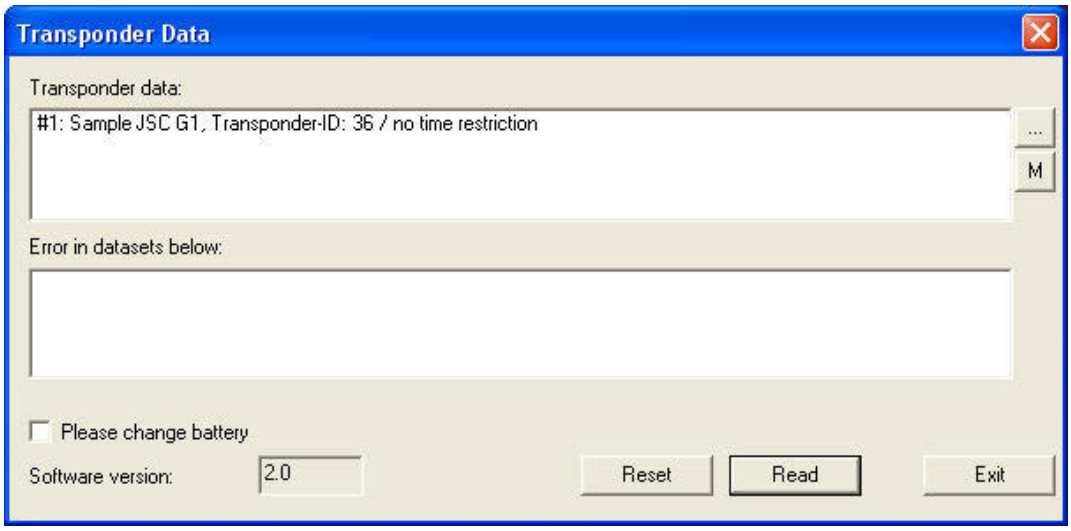
6.3.2 READING

EXPLANATION

A programming device (config device) is needed to write data to the components. Please refer to the “LSM Administration Manual” or the product manual for installation and configuration information.
When you read the card, the data stored on it is read with the aid of the SmartCD.C and if possible assigned to an owner.

PROCEDURE

- Position card (see 2.2 Positioning components)
- ➲ Programming
- ➲ Read/reset card



EXPLANATION

“Transponder data”	→	All of the data on the card is displayed: programmed data records, the locking system ID, transponder ID and time group
“The following data records contained …”	→	Indicates any defective data records
“Battery must be replaced”	→	Status of transponder battery. If the battery is low, a tick appears in the box (does not apply to cards)

“Software version”	→	Firmware status of transponder/card
…	→	Indicates the properties of the read card
M	→	Indicates the read card in the matrix

NOTE:

When you read the card, it is simultaneously highlighted in the locking plan.

6.3.3 RESETTING

EXPLANATION

When a card is reset, the data stored on it is removed and the card’s actual status is deleted in the software.

PROCEDURE

- Position card (see 2.2 Positioning components)
- Select person in the matrix
- ➲ Programming
- ➲ Read/reset card

Note:
If a card is not recognised, it can be reset by specifying the sector number and the locking system password.

6.4. G2 CARDS

6.4.1 PROGRAMMING

EXPLANATION

When you program the card, you tell it what its transponder ID is, which locking system it belongs to, what the password for the locking system is and which time group it belongs to.

ICON

PROCEDURE

- Position card (see 2.2 Positioning components)
- Select card in matrix
- ➲ Programming
- ➲ Transponders
- Program

or

- Position card (see 2.2 Positioning components)
- Select card in matrix
- ➲ Click on the programming lightning icon in the toolbar
- Program

EXPLANATION

“Owner / Transponder”	→	The owner and the serial number of the card are displayed and can be selected. If a card has already been programmed, the owner and UID are displayed
“Programming device”	→	The programming device required for the medium is automatically selected.
“After programming...”	→	When this option is selected, you jump to the next unprogrammed transponder (in alphabetical order) and the window stays open

“Data records from other ...”	→	When this option is selected, data records from other locking systems are not overwritten. An additional data record is written when you program the transponder, assuming that there is another free data record available (does not apply to cards)

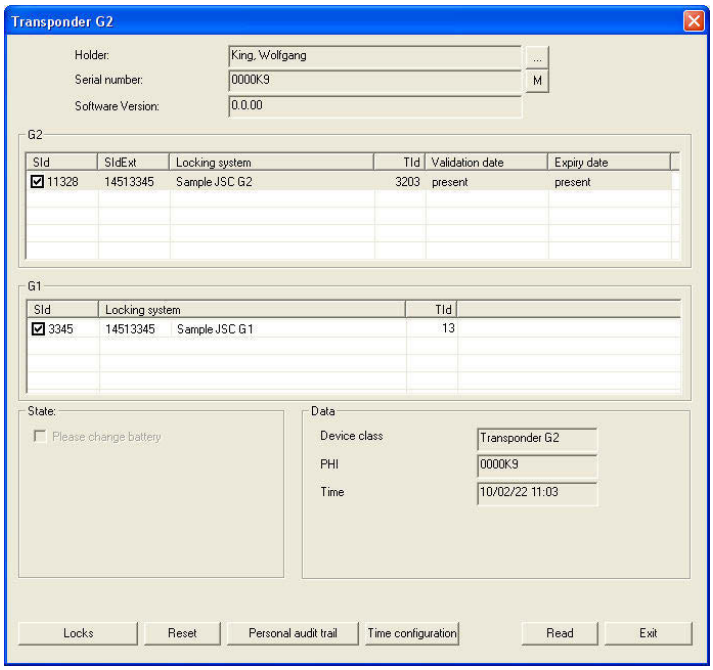
6.4.2 READING

EXPLANATION

A programming device (config device) is needed to write data to the components. Please refer to the “LSM Administration Manual” or the product manual for installation and configuration information.
When you read the card, the data stored on it is read with the aid of the SmartCD.HF and if possible assigned to an owner.

PROCEDURE

- Position card (see 2.2 Positioning components)
- ➲ Programming
- ➲ Read/reset card



EXPLANATION

“Owner”	→	Name of transponder owner
“Serial number”	→	Serial number of transponder
“Software version”	→	Transponder’s firmware status
…	→	Indicates the properties of the read

		transponder
M	→	Indicates the read transponder in the matrix
G2		
Transponder data	→	• Locking system ID • Extended locking system ID • Locking system • TID • Activation date • Expiry date
G1		
Transponder data	→	• Locking system ID • Locking system • TID
Status		
“Battery status critical”	→	This component requires the battery to be changed
“Device class”	→	Class of read lock
“PHI”	→	Public Hardware Identifier (PHI) for unique identification of G2 components
“Time”	→	Current time of transponder
Authorisations	→	Displays the authorisations
Reset	→	The highlighted transponder data record is reset
Physical access list	→	Read physical access list
Read	→	Read (another) transponder

NOTE:

Whenever you read the transponder it is simultaneously highlighted in the locking plan.

6.4.3 RESETTING

EXPLANATION

When a card is reset, the data stored on it is removed and the card’s actual status is deleted in the software.

PROCEDURE

- Position card (see 2.2 Positioning components)
- Select person in the matrix
- ➲ Programming
- ➲ Read/reset card

Note:

If a card is not recognised, it can be reset by specifying the sector number and the locking system password.

7.0 MISCELLANEOUS

7.1. CREATING A REPLACEMENT CARD

USE

This procedure should be used when a card has been lost.

EXPLANATION

When you create a replacement card, the original card is blocked and a new one is created with the same authorisations and a similar designation.

PROCEDURE

- Right-click on the original card
- ➲ New
- ➲ Replacement transponder
- Confirm query with Yes
- Enter additional information and confirm
- Enter new serial number

RESULTS

- Card needs to be programmed
- Affected locks need to be programmed
- The card's ID number is permanently blocked

7.2. PROCEDURE FOR DEFECTIVE CARDS

EXPLANATION

If a card is defective, you must tell the software that the old card no longer works before programming a new one.

PROCEDURE

- Right-click on the original card
- ➲ Properties
- ➲ Transponders

or

- ➲ Edit
- ➲ Transponders
- Select card using arrow buttons 
  If you are working with a large number of data records, it is much easier to select it using the search function. To do this, highlight the field to be searched, then select the magnifying glass in the icon list and enter the search term in the screen that appears.

then

- Software reset
- Select reason
- Enter additional information if required
- Confirm twice with Yes
- You can now start programming the new card

RESULTS

- Actual status of the original card is reset

NOTE

Resetting the software and then programming another card can lead to a security loophole. It is possible to create two cards with the same data. It must be ensured that the original card really is defective. In this case a replacement card (see 3.1 Creating a replacement card) must be created."

8.0 OVERVIEW OF CARDS

The tables below list the various card types and how the memory is split up in conjunction with a SimonsVoss system.

8.1. CARD TYPES

Designation	MIFARE Classic	MIFARE Classic		
Memory	1K	4K		
Special features	16 sectors amounting to 64 bytes each (48 bytes of useful data)	32 sectors amounting to 64 bytes each (48 bytes of useful data) and 8 sectors amounting to 256 bytes each (240 bytes of useful data)		
Encryption	CRYPTO1	CRYPTO1		
UID	4 / 7 bytes	4 / 7 bytes		

Designation	MIFARE DESFire EV1	MIFARE DESFire EV1	MIFARE DESFire EV1	
Memory	2K	4K	8K	
Special features				
Encryption	AES / Triple-DES	AES / Triple-DES	AES / Triple-DES	
UID	7 bytes	7 bytes	7 bytes	

8.2. MIFARE CLASSIC DEVICE G1 VARIANTS (SMART READER)

Variant ID	Designation	LIds	Access list	VN data	Total memory	Fittings	Description
	Basic fittings	0	0	No	48B	1K, 4K 1 sector	Configuration with transponder data

8.3. MIFARE CLASSIC DEVICE G2 VARIANTS

Variant ID	Designation	LIds	Access list	VN data	Total memory	Fittings	Description
33	Basic fittings	0	0	No	48B	1K, 4K 1 sector	Configuration without locking profile, access list, and VN. Profile release = 0
32	Small system 1,200L	1,200	0	No	192B	1K, 4K 4 sectors	Small system, without access list and VN.
34	Small system 1,000L	1,000	21-42	Yes	528B	1K, 4K 11 sectors	Small system, with access list and VN.
31	Mid-sized system 3,800L	3,800	0	No	528B	1K, 4K 11 sectors	Mid-sized system, without access list and VN.
35	Mid-sized system 8,000L	8,000	120-230	Yes	2,048B	4K - 8 small + 8 large sectors	Mid-sized system, with access list and VN.

8.4. MIFARE DESFIRE DEVICE G2 VARIANTS

Variant ID	Designation	LIds	Access list	VN data	Total memory	Fittings	Description
33	Basic fittings	0	0	No	48B	2K-8K	Configuration without locking profile, access list, and VN. Profile release = 0
32	Small system 1,200L	1,200	0	No	192B	2K-8K	Small system, without access list and VN.
31	Mid-sized system 3,800L	3,800	0	No	528B	2K-8K	Mid-sized system, without access list and VN.
30	Mid-sized system 4,000L	4,000	80-150	Yes	1,600B	2K-8K	Mid-sized system, with access list and VN.
29	Large system 10,000L	10,000	200-400	Yes	3,048B	4K, 8K	Large system, with access list and VN.

9.0 SERVICE AND SUPPORT

PRODUCT SUPPORT

If customers have any questions relating to products from SimonsVoss Technologies AG, the general support team will be happy to help:

Telephone +49 (0) 1805 78 3060

The product hotline does not offer support for the LSM Business and Professional software.

SOFTWARE SUPPORT

SUPPORT STANDARD

For customers with a chargeable Support Standard software agreement, the following support options are also available:

E-mail lsm-support@simons-voss.de
Telephone +49 (0) 1805 57 3060

SUPPORT PREMIUM

For customers with a chargeable Support Premium software agreement, the following support options are also available:

E-mail lsm-support@simons-voss.de
Telephone +49 (0) 1805 57 3060

Online support tool

- Short call to LSM hotline
- Launch LSM
- ➲ areas,
- ➲ SimonsVoss Online Support

10.0 GLOSSARY

This list is not exhaustive.

A

Access lists

Storage of transponder data in the locks with access control function. Please note the valid health and safety and data protection regulations when using this data.

Alerts

You can use alerts to promptly display certain statuses.

Area

The area is a combination of several doors.

Audit-compliant

A log is described as audit-compliant if the information about changes in a system in the database is archived such that it can be found again and traced, cannot be changed and is protected from falsification.

C

Checkbox

Option of selecting a property in the graphic interface

D

Database-supported

Software that stores data in a specified structure, the database. The locking system database includes the locking plan and the locking systems.

Door

You have the option of saving additional information on the door, which also manages the locks.

E

Emergency opening

Procedure for opening a lock without an authorised transponder. Emergency opening is protected by passwords.

Event

An event is a change in status reported to LSM via the network.

Export

During the export process, the selected locking plan data is transferred to the PocketPC.

F

Filter

A filter limits the view to data grouped / sorted by the selected property

G

Group authorisation

Group authorisations provide the option of authorising several transponders to several locks at the same time.

GUI

Graphical User Interface for operating the software.

H

Handheld

A handheld / PocketPC is a small computer that can be used for mobile programming.

Hierarchy

Hierarchy is a system of elements that are superordinate or subordinate to one another.

I

Import

During the import process the exported locks are transferred back to the locking system after processing.

L

Lock

Lock can be understood as meaning SimonsVoss products that evaluate an authorisation and enable opening.

Locking plan

The locking plan contains all the authorisation and system information, user management and may include several locking systems.

Locking system

The locking system structures the created transponders and doors and manages access authorisations.

LON

LON is a wired communication system for building automation. SimonsVoss components can network technology and products that meet this standard and therefore be operated online

LSM Mobile

Software for a handheld / PocketPC for mobile management and programming of the locking system.

M

Matrix

The matrix is the graphical view of authorisations in LSM.

N

Network

The SimonsVoss network enables the locks to be directly addressed without the programming device.

Network address

The network address allows you to clearly recognise each lock node, which is fitted on the door and stored in the software as being assigned to the door.

O

OMRON mode

All product versions can be operated in OMRON mode. If you would like the Smart Relay to transfer the transponder data to an external system and a remote opening command to be sent to the cylinder when transfer is activated from the Smart Relay by the external system, select this option on both the Smart Relay and the cylinder. Please note: If you use this configuration, it is no longer possible to open the cylinder using the transponder! Please refer to the Smart Relay Manual for an exact description.

Overlay mode

In overlay mode 8 transponder IDs are reserved for a created transponder and programmed into the authorised locks. If the first transponder is lost, the transponder ID is deactivated in the software and the new transponder is assigned the next transponder ID from the reserve TIDs. When the transponder is used to open a lock, the system recognises that this is one of the 7 reserve TIDs and deactivates the previous transponder ID.

P

Password

The security of passwords depends on the complexity and length of the password. Passwords are used to protect the locking system in several parts of the system

Period of validity

The period of validity is a time frame in which the transponder will function. The transponder is deactivated outside this time frame.

Person

Person allows you to store additional information about a user.

PocketPC

A handheld / PocketPC is a small computer that can be used for mobile programming of locks.

Programming requirement

Programming is required if there is a difference between the actual and target status, either due to a change in access authorisations or configurations.

Public holiday

National or company-specific holiday or period of several days off.

Public holiday list

A public holiday list is a compilation of selected public holidays and is used in the time zone plans.

R

Reserve

A reserve shows the number of G1 transponder IDs in the selected transponder group.

Reset

During the reset process the data on the object is deleted and the actual status of the software set to ‘‘unprogrammed’’

S

Search

Search enables you to jump directly to an object in the locking system or database

T

Task list

List of tasks available in the system

Time group

A transponder can be assigned to a time group and when used in conjunction with a time zone plan, creates time-controlled access.

Time group name

Time group name is the pre-defined time group name assigned to the time group number of a transponder

Time group number

The time group number of a transponder can be set individually and is specified by the administrator. The transponder is approved or rejected in a lock time zone plan according to this group.

Time zone

Time zones are areas that can only be accessed by certain transponder groups at certain times.

Time zone plan

Object for time-controlled access on locks for areas and transponders. Public holiday lists can also be incorporated here.

Transponder

The transponder is the ‘‘electronic key’’ in the system 3060.

Transponder group

The transponder groups is a combination of several transponders for managing group rights.

W

WaveNet

WaveNet is an extremely flexible SimonsVoss network that can use both wired and wireless connections.

Write access

The right to make changes. Certain roles in LSM user management, such as using handheld devices, managing a network or configuring a network, require write access in the database before they can be performed.