# **LSM 3.4 SP2**

locking System Management - [C:\Program Files\Simi

Datenbank Ansicht Assistenten

Simons Voss Technologies AG

Transpondergruppen

[Systemgruppe

Schließanlage:

15

E iii

Manual 28.10.2019



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## 1 General information

This manual describes the functions in the 3.4 SP2 Locking System Management software. The Locking System Management software, LSM software for short, was developed to manage complex locking systems with SimonsVoss locking components.

Other documents are available to supplement this manual:

👪 WaveNet manual

Describes how to use the WaveNet radio network.

SimonsVoss Smart User Guide

Implement basic functions *(ONLINE, OFFLINE and VN)* with the LSM software.

ESM update manual

Describes the update process for previous versions.

## 1.1 Safety instructions



## WARNING

#### **Blocked** access

Access through a door may be blocked due to incorrectly fitted and/or incorrectly programmed components. SimonsVoss Technologies GmbH is not liable for the consequences of blocked access such as access to injured or endangered persons, material damage or other damage!



## CAUTION

The products/systems described in this manual may only be operated by persons who are qualified to perform the related tasks. Qualified staff are capable of identifying any risks associated with handling these products/ systems and avoiding potential hazards thanks to their knowledge and skills.

### CAUTION

#### Loss of locking system password

The locking system password is a central component of the security concept. The loss of the locking system password restricts the operation of the locking system and is a security risk.

- 1. Keep the locking system password safe (e.g. in a safe)!
- 2. Make the locking system password visible to authorised persons at all times!



#### IMPORTANT

This documentation has been compiled based on the best knowledge available to us. Nevertheless, errors cannot be ruled out. SimonsVoss Technologies GmbH is not liable in such cases.



#### IMPORTANT

Modifications or further technical developments cannot be excluded and may be implemented without prior notice.



#### IMPORTANT

Should there be differences in the content of other language versions of this documentation, the German version applies in cases of doubt.



#### IMPORTANT

You must follow all instructions precisely when connecting and installing the product. The person installing the system should hand these instructions as well as any maintenance instructions over to the user.

#### 1.2 Legal notes

The purchaser is expressly informed that use of the locking system (e.g. with access event logging and DoorMonitoring functions) may be subject to statutory permit requirements and employee rights to co-determination, especially with regard to data protection legislation. The purchaser or customer and the end user are responsible for ensuring that the product is used in compliance with the law.

Malfunctions may arise if the product is not used as agreed or is used in a non-standard way. They may also occur if the product undergoes repairs or modifications not expressly approved by , or assistance with the product is obtained from a non-specialist service provider; do not use the product or have it repaired or serviced in this way. Any modifications not expressly permitted by will result in the loss of the right to make liability or warranty claims or any specially agreed rights to make guarantee claims.

#### 1.3 System requirements

You will need local administrator rights to install LSM software. The following system prerequisites must be met as a minimum to ensure that the software is stable in its operation:

- Interface: at least 1 x USB 2.0 or higher
- Screen resolution: at least 1024 x 768 pixels
- Processor: at least 2.66 GHz (as single core processor)
- 🚦 RAM: at least 2 GB
- Memory space: at least 1 GB (*approx. 1 GB additional during installation*)
- Communication: TCP/IP with activated NetBios via LAN interface (from 10 Mbit, recommendation: 100 Mbit or faster)

NetBios may be switched off in special cases. Please contact Support for this (see *Help and other information* [+ 173]).

If LSM is not installed as a standalone installation, additional system requirements apply:

- Windows domain
- Name resolution



#### IMPORTANT

The installation of all LSM versions requires a previously installed .NET Framework 4.0. or higher!

The following operating systems are supported:

#### LSM BASIC/BASIC ONLINE

- Windows 7 (Professional or higher edition)
- Windows 8 (Pro or higher edition)
- Windows 10 (Pro or higher edition)

#### LSM BUSINESS/PROFESSIONAL

Server

- Windows Server 2008
- Windows Server 2008 R2
- Windows Server 2012
- Windows Server 2012 R2
- Windows Server 2016
- Windows Server 2019
- Server can also be virtualised with:
  - VMware Sphere Client Version 5.1.0 or higher
  - VMware ESXi version 5.1.0 or later
- Client
  - Windows 7 (Professional or higher edition)
  - Windows 8 (Pro or higher edition)
  - Windows 10 (Pro or higher edition)



#### IMPORTANT

LSM BUSINESS/PROFESSIONAL: The locking system database directory on the server must be shared on the network.

We recommend using high-performance, up-to-date hardware which exceeds the minimum system requirements at all times to ensure that the LSM software functions smoothly. A high-resolution wide-screen monitor, 21 inch or larger, is best suited to keeping track of things at all times, even in large locking systems with many components.

#### LSM Mobile PC

LSM Mobile should be used on a netbook, tablet computer or notebook with Windows 7 or higher. LSM Mobile does not run on Windows RT versions. The mobile computer system used must feature an unassigned USB port to connect a programming device.

#### LSM Mobile PDA

As a basic rule, LSM Mobile can alternatively be used with all PDAs or pocket PCs featuring a Bluetooth interface and using Windows Mobile 5.0 or higher. Due to the wide range of built-in components *(mainly Bluetooth components)*, however, support can only be provided for the models:

- Socket Mobile 650
- Pidion BM-170
- Fujitsu Siemens Pocket LOOX C550

- HP iPAQ 214
- 🖬 Dell PDA
- Acer PDA

#### IMPORTANT

Read the LSM software release notes to see which version of LSM Mobile is to be used.

### 1.4 Information on the manual

This manual describes the functions in the LSM software. This allows the user to programme SimonsVoss locking components and manage the locking system.



## IMPORTANT

This manual does not describe individual SimonsVoss locking components. You must consult the quick guides and manuals for the individual components to understand individual components.

#### Transponder

As a basic rule, the LSM software regards all ID media, such as transponders, tags and cards, as transponders. In this manual, the term 'transponder' therefore also refers to all other ID media such as tags and cards.

## 1.5 Data protection in System 3060

#### 1.5.1 IT basic protection

In general, only non-critical data with so-called normal protection requirements are processed and stored in the LSM software. This means data whose hypothetical loss neither damages the reputation of a person nor the image of a company. A high financial loss is also not to be expected. According to the German Federal Office for Information Security (BSI), basic IT security is therefore sufficient as a security concept for a SimonsVoss locking system and is regarded as a recommended minimum requirement for your IT infrastructure.

#### 1.5.2 Encryption

Within the system's own communication, data packets are encrypted endto-end. With the latest versions of our products you increase the level of security, as they always correspond to the current state of the art. Multilevel encryption methods are used.

## 2 Installation

This section describes initial LSM software installation on a system which does not have a previous version of LSM installed. It is possible to update to the current LSM version 3.4 SP2 from an earlier version, but you must ensure that LSM 3.4 SP2 is not installed in parallel to older versions of LSM. LSM Business also requires the Advantage Database Server in its 12.x version.

The LSM update manual documents LSM software updates.

### 2.1 Software



#### IMPORTANT

Different access rights levels for LSM Basic Online and VN host server

If the VN host accesses the LSM database, LSM Basic Online may malfunction in its execution and may not function with the database.

Always run LSM Basic Online as an administrator.

#### 2.1.1 LSM Basic

LSM Basic is installed on a single local computer only. *It is not possible and is not permitted to save the database via the network since the integrity of the database can no longer be guaranteed in such cases.* 

- 1. Launch the set-up file as an administrator.
- 2. Follow the installation instructions.
  - └→ You need to accept the licence conditions to carry out installation.
- 3. Launch LSM Basic (desktop icon or Start/Programme/SimonsVoss/ LSM BASIC)



#### IMPORTANT

Save your locking system locally on the computer and generate backups on external disks or data storage devices on a regular basis.

#### 2.1.2 LSM Basic Online



## CAUTION

#### Install VN host after LSM

The VN host cannot access the database if LSM has not been installed yet and a locking system has been set up. If the VN host does not find a database it can access during installation, problems may arise.

- 1. Install LSM before the VN host.
- 2. Add a locking system.
- 3. Install VN host

LSM Basic Online is installed on a single local computer only. *It is not possible and is not permitted to save the database via the network since the integrity of the database can no longer be guaranteed in such cases.* 

- 1. Launch the set-up file as an administrator.
- 2. Follow the installation instructions.
  - → You need to accept the licence conditions to carry out installation.
- 3. Launch LSM Basic Online (*desktop icon or Start/Programme/Simons-Voss/LSM BASIC ONLINE*)



#### IMPORTANT

Save your locking system locally on the computer and generate backups on external disks or data storage devices on a regular basis.

#### 2.1.3 LSM Business/Professional

Installing LSM Professional is similar.

#### 2.1.3.1 Install and configure ADS server

The Advantage Database Server is an essential tool for operating LSM Business. Using the ADS server is the only way to ensure that a number of people can access the locking plans in the database at the same time and that data are successfully exchanged in the process.

This section shows all the necessary steps which you need to take on the server.



#### IMPORTANT

You need a valid licence key to install the ADS server *(validation code and replication code)*. Contact your vendor, keeping your SimonsVoss delivery note for LSM Business software at hand if you do not have a licence key yet. The SimonsVoss delivery note contains a certificate with a serial number and validation code which is used to register the ADS licence.

#### Create folder structure

We recommend working with the folder hierarchy established by SimonsVoss. This default hierarchy offers many advantages in terms of installation help and support.

Create the following folder hierarchy directly in the main directory (e.g. C: \SimonsVoss\), which can then be used to store objects such as the locking plan and log files:



- The "sv\_backup" folder can be used to store local backup files, which can, in turn, be used to restore an earlier state of the locking system.
- The locking plan can be saved in the "sv\_db" folder.
- Installation files can be saved in the "sv\_install" folder.
- The ADS server log files are save in the "sv\_logs" folder.
- Files from older versions of LSM can be stored in the "sv\_previoussystem" folder.
- The "sv\_scripts" folder can be used to store objects such as the backup script, which is added to the Windows task scheduler.
- Objects such as WaveNet Manager files can be stored in the "sv\_WaveNet" folder.

#### Install ADS server

Install the ADS server on the server:

- 1. Launch the set-up file as an administrator.
- 2. Follow the installation instructions.
  - └→ You need to accept the licence conditions to carry out installation.
  - ➡ Enter the required codes to register the ADS server correctly when prompted.

#### Configure ADS server

Configure the ADS server with the help of the Advantage Configuration Utility:

- 1. Launch the Advantage Configuration Utility, e.g. at *Start/Programme/ Advantage Database Server/Advantage Configuration Utility*. (The Configuration Utility may have already been launched)
- 2. Select the "Configuration Utility" tab.
- 3. Change the following properties in the "Database Settings" tab and press the "Apply" button to save:

🔝 Advantage Configuration Utility	'	—	□ ×
Service Up Time: 2 Days 0 I Operations Since Started: 10476766	7 Seconds	Syrase	
Database Info Installation Info Co	nfiguration Utility	IP IP	any <u>vanere</u> .
Database Settings File Locations	Communications	Misc. Settings	Language
Maximum Web Platform Users: Number of Connections: Number of Work Areas: Number of Tables: Number of Index Files: Number of Data Locks:	0 10 125 100 150 200		
<u>R</u> estore Defaults	Ca <u>n</u> cel	Арріу	,
Copyright © 1996-2012	Stop	Service	Exit

4. Change the following properties in the "File Locations" tab and press the "Apply" button to save:

📓 Advantage Configuration Utility — 🗌 🗙
Service Up Time: 2 Days 0 Hours 12 Minutes 47 Seconds
Operations Since Started: 10476766 <b>STRUSE</b>
Database Info Installation Info Configuration Utility
Database Settings File Locations Communications Misc. Settings Language
Error and Assert Log Path: C:\Program Files (x86)\SimonsVoss\s Browse
Transaction Log Files Path: C:\Program Files (x86)\SimonsVoss\s Browse
Root Data Dictionary Path:
Advantage Installation Path: C:\Program Files (x86)\Advantage 11.10\Server\Al
Restore Defaults Cancel Apply
Copyright © 1996-2012 Stop Service Exit

► Note that the drive path may differ from the one on the server (here C:).

5. Change the following properties in the "Communications" tab and press the "Apply" button to save:

🙀 Advantage Configuration Utility	_	
Service Up Time: 2 Days 0 Hours 16 Minutes 5	i1 Seconds	
Operations Since Started: 10476766	il	Sybase Anywhere
Database Info Installation Info Configuration Utility		
Database Settings File Locations Communications	Misc. Settings	Language
LAN Port: 6262		
Internet Port: 0		
Client Time Out (seconds): 120		
Compression: Always	$\sim$	
Restore Defaults Cancel	Appl	y
Copyright © 1996-2012 Stop	Service	Exit

6. Change the following properties in the "Misc. Settings" tab and press the "Apply" button to save:

🙀 Advantage Configuration Utility	—	
Service Up Time: 2 Days 1 Hours 13 Minutes 1	0 Seconds	
Operations Since Started: 10476766	iA	Sybase Nywhere.
Database Info Installation Info Configuration Utility		
Database Settings File Locations Communications	Misc. Settings	Language
Number of Worker Threads:       0         Maximum Size of Error Log:       1000         Suppress Message Boxes:       ✓         Disable Free Connections:       □         Non-Exclusive Proprietary Locking:       □		
Restore Defaults Cancel	Арріу	,
Copyright © 1996-2012 Stop	Service	Exit

7. Change the following properties in the "Language" tab and press the "Apply" button to save:

😹 Advantage Configuration Utility	-	
Service Up Time: 2 Days 0 Hours 18 Minutes 22 S	Seconds	
Operations Since Started: 10476766	i	Sybase Anywhere
Database Info Installation Info Configuration Utility		
Database Settings File Locations Communications M	lisc. Settings	: Language
ANSI Character Set	~	]
OEM Character Set GERMAN	~	
NOTE: Changing the language setting requires the se	erver to be re	estarted.
Restore Defaults Cancel	App	ly
Copyright © 1996-2012 Stop Se	rvice	Exit

#### Check ADS server service

Check whether the ADS server service is automatically run as a system service:

- 1. Open the control panel, e.g. using *Start/Control panel*.
- 2. Open the "Administration" folder.
- 3. Open the "Services" folder
- 4. Check whether the "Advantage Database Server" service status is "Launched" and the launch type is set to "Automatic".
  - → Double-click on the ADS service to change any values if necessary.

#### Share database on the network

The "sv\_db" database directory on the server must be shared on the network. Configure a share with read rights. We recommend configuring a "hidden share". You can shared resources by inserting the \$ character at the end of the share path.

#### Setting up a local backup

It is important to create backups of the locking system on a regular basis. Take the necessary measures to ensure that the "sv\_db" folder is automatically backed up at regular intervals.

The following script ends the ADS service, copies the database for back-up purposes and re-launches the ADS service:

rmdir /s /q C:\PATH\_BACKUP\

net stop Advantage /y

md C:\PATH\_BACKUP\ xcopy C:\PATH\_SOURCE\\*.\* C:\PATH\_BACKUP\ / s /c /e

net start Advantage /y

- "PATH\_BACKUP" represents the folder path where the database needs to be copied for back-up purposes.
- "PATH\_SOURCE" represents the exact path to the "lsm\_db" folder where the database is to be saved.

Save this script as a batch file (.bat) in the *C:\SimonsVoss\sv\_scripts* folder to carry out this task automatically (create new task in Windows task scheduler). The saved database with the locking plan, saved under "PATH\_BACKUP", can be archived using any standard backup tool.



## IMPORTANT

A backup on an additional external medium is strongly recommended.

2.1.3.2 Install and configure LSM Business



#### CAUTION

#### Install VN host after LSM

The VN host cannot access the database if LSM has not been installed yet and a locking system has been set up. If the VN host does not find a database it can access during installation, problems may arise.

- 1. Install LSM before the VN host.
- 2. Add a locking system.
- 3. Install VN host

#### Install LSM Business

LSM Business is installed on the client computers as required. These computers access the ADS server on the network which manages the locking plans.



#### IMPORTANT

We strongly recommend installing the LSM software directly into a local administrator account. *Log on using an Administrator account; do not merely select "Run as administrator" when logged on as an ordinary user.* 

- 1. Launch the set-up file as an administrator.
- 2. Follow the installation instructions.
  - → You need to accept the licence conditions to carry out installation.
- 3. Launch LSM Business (desktop icon or Start/Programme/SimonsVoss/ LSM BUSINESS)

#### Configure LSM Business

LSM Business needs to be configured once. In this step, we copy an empty locking plan onto the server and configure LSM Business, so that it can access this locking plan.

- Extract the locking plan, which is stored in the LSM Business installation directory (e.g. C:\Programs (x86)\SimonsVoss\LockSysMgr\_3\_4\db), and transfer it to the "sv\_db" server directory.
- 2. Launch LSM Business (e.g. using *Start/Programs/SimonsVoss/LSM Business*).
- 3. Select "Setup".

4. If it is being run for the first time, a window will open, where the database path is to be set.

'roject	LSM BUSINESS
ata source	\\SANTABARBARA\sv_db\lsmdb.add
efault project:	LSM BUSINESS
Advantage Inter	net Server

- $\mapsto$  Enter a project name.
- → Use the "..." button to select the path to the server and link directly to the lsmdb.add file. In the case of hidden releases, the path to lsmdb.add must be entered directly with the \$ character, e.g.: \ \<SERVER>\sv\_db\$\lsmdb.add
- → You cannot select a local directory in LSM Business.
- 5. Apply the settings.

#### 2.1.3.3 Install Crystal Reports hotfix

Crystal Reports is used as a reporting tool in the background. The tool is automatically installed when LSM Basic Online, Business and Professional are installed. A current hotfix needs to be installed to ensure correct operation.

- 1. Launch the hotfix in .exe format.
- 2. Follow the installation instructions.
  - → You need to accept the licence conditions to carry out installation.

#### 2.1.4 Register LSM

LSM needs to be registered. A registration file is created for this purpose and sent to a designated email address. You will then automatically receive a reply which contains your personal licence file. You can use this licence file to register LSM with the modules that you ordered.

#### Procedure

- ✓ LSM installation is implemented.
- ✓ Delivery note with registration information is on hand.
- ✓ There is a connection to the Internet.
- 1. Click in the tab | Help | on button Registration.
  - → The window "Registration" opens.

Help		
	Help topics	F1
	SimonsVoss Online Support	
	SimonsVoss on the Web	
	Info on LockSysMgr	
	Registration	
	Version overview	
	FAQ	
	Check for updates	
	Database report	

2. Click on the button Edit .



- → The window "Edit registration" opens.
- 3. Complete the form.

Company:	SimonsVoss		
Address:	Feringastraße 4		
Town:	Unterföhring	Postcode:	85774
Country:	Deutschland		
Contact:	Robertsen Georgen		2.4
Tel:	580% (2008) (MD)	Fax:	
E-mail:	store particular		

4. Open the dropdown menu ▼ LSM Edition.

5. Select the LSM edition.





### IMPORTANT

If you have ordered an LSM Basic Online, please select the dropdown entry "LSM Basic".

6. Click on the button Apply.



- $\mapsto$  The data record is saved.
- 7. Click on the button Produce licence query.

Cha	nge process
	Apply
	Report
	Produce licence query
	Read in licence file

8. Click the button Yes, to accept the query prompt.



9. Complete the form (LSM consignment number in LSM-xxxxx format; order number in Axxxxxx format).

Automatic registration		×	
Please complete the following fields.			
Note: you will find the details in the registration software.	information that was delivered toget	her with the LSM	
SV trade partner:	Second House		
Commission number:	.5m-006376	unknown	
Order number:	4434301	unknown	
ОК		Cancel	

10. Click on the OK button.

- $\mapsto$  The RGO file is created.
- → The Explorer window will open.

11. Save the RGO file to a directory of your choice.

Save As						×
Save in:	Lizenz	-	← 🗈 💣 🎟 -			
Name	~		Date modified	Туре		Size
		No items mate	h your search.			
<						>
File name:	SANTABARBARA.rgo				Save	
Save as type:	Text files (*.rgo)			•	Cancel	

12. Click on the OK button.

LockSysM	gr	×
()	The LSM will now try to send the licencing request file by email. An email window should open in the next 30 seconds . If this is not the case, send the\licence request (H:\geigerk\Passwörter und Keys\LSM\aaa.rgo) by email to the following address: Ism-registration@simons-voss.com	
	ОК	

- → The standard email client will open. An email is automatically generated with the RGO file attached.
- 13. If the RGO file is not attached, then attach it manually.
- 14. Send an email with the RGO file to registration@simons-voss.com.
  - Reply with attached LIC file arrives automatically when registration information is complete. Otherwise, a manual check is carried out by Customer Service.
- 15. Save the LIC file to a directory of your choice.
- 16. Switch back to LSM.

17. Click on the button Read in licence file .

Cha	ange process
	Apply
	Report
	Produce licence query
	Read in licence file

→ The Explorer window will open.

|--|

📕 Open					×
Look in:	Lizenz 💌	← 🗈 💣 🎟 -			
Name	ARBARA.lic	Date modified 14/02/2018 11:19	Type LIC File		Size
<					>
File name:	SANTABARBARA.lic			Open	
Files of type:	Text files (*.lic)		•	Cancel	
	Open as read-only				

- 19. Click on the button Open.
- 20.Click the button OK , to accept the prompt notice.
- 21. Re-start LSM.
- $\mapsto$  Registration is implemented.

#### 2.1.5 VN host

The VN host accesses the LSM database and provides different functions without LSM itself being run (gateway among other things).



## CAUTION

#### Install VN host after LSM

The VN host cannot access the database if LSM has not been installed yet and a locking system has been set up. If the VN host does not find a database it can access during installation, problems may arise.

- 1. Install LSM before the VN host.
- 2. Add a locking system.
- 3. Install VN host

## 2.1.6 CommNode

Install the CommNode server using the setup file. If the CommNode service is not then listed under the Windows services (SimonsVoss CommNode server), you must perform the installation with a batch file.

- Go to the installation directory of the CommNode server (C:\Program Files (x86)\SimonsVoss\CommNodeSvr\_3\_4).
- $\ \ 2. \ \ Execute the batch file install\_CommNodeSvr with administrator rights.$ 
  - $\mapsto$  The command line opens.
  - → The CommNode server is installed.
- → The CommNode server is installed and listed under Windows services.

## 2.2 Programming devices

A programming device may be connected to any computer which has LSM software installed. All that is required is a USB port on the computer. The programming device is used to transfer settings and authorisations that you have made to SimonsVoss locking components. All components can also be easily read. You can also transmit settings and authorisations to components already programmed using LSM Mobile Edition or the SimonsVoss WaveNet network.

#### 2.2.1 Identify programming devices and use properly

SimonsVoss programming devices are currently available in the following versions:

#### 2.2.1.1 SMARTCD.G2

The SMARTCD.G2 is the standard programming device for active and hybrid components. You can use the SMARTCD.G2 to programme all active SimonsVoss components. This programming device has a Bluetooth module and a rechargeable battery. It can also be easily used with LSM Mobile, so that it can be connected to a PDA or pocket PC. You can identify the SMARTCD.G2 due to its SimonsVoss logo.





#### IMPORTANT

The SMARTCD.G2 programming device battery needs to be charged for a few hours before use.

#### 2.2.1.2 SMARTCD.MP

You can use the SMARTCD.MP programming device to programme and read passive components. Unlike the active SMARTCD.G2, the SMARTCD.MP is identified by the radio symbol. The SMARTCD.MP can only be used via a direct USB connection.



#### 2.2.1.3 SMARTCD.HF

You can also use the SMARTCD.HF card programming device to programme and read passive tags and cards.



#### 2.2.2 Programming distance

A specific distance must be kept between the programming device and the components for successful programming and read processes.

#### SMARTCD.G2

- The distance between SMARTCD.G2 and active components, such as locking cylinders or transponders, should be about 20 cm.
- Ensure that no other active components are in the immediate surrounding area during the programming or read process (radius of about 1.5 m to the SMARTCD.G2).



## IMPORTANT

The programming distance between SMARTCD.G2 and **SmartRelay or biometric reader** must be exactly 40 cm!

### SMARTCD.MP

- The thumb-turn on the electronics side of the locking cylinder (black ring between the thumb-turn and the profile cylinder housing) must be held directly against the antenna symbol on the SMARTCD.MP.
- Hold the locking cylinder against the antenna symbol for the whole process.
- You can also use the SMARTCD.MP to programme cards by holding them directly on the programming device.

#### SMARTCD.HF

Position the card or the tag, so that it is flush with the lower, left-hand corner of the SMARTCD.HF.

#### 2.2.2.1 Programme hybrid locking devices

You use the SMARTCD.G2 to programme hybrid locking devices. You also need to connect (and install) a SMARTCD.MP or SMARTCD.HF at the same time for programming.

#### 2.2.3 Check connection

You can use the LSM software to check that the programming device has been correctly connected and installed:

- 1. Select "Programming" in the menu bar.
- 2. Select the programming device to be checked, e.g. "Test SmartCD active" to test the SmartCD.G2.
  - → The test will start immediately.

## 3 First steps after a new installation

#### IMPORTANT

Different access rights levels for LSM Basic Online and VN host server

If the VN host accesses the LSM database, LSM Basic Online may malfunction in its execution and may not function with the database.

Always run LSM Basic Online as an administrator.

#### 3.1 Recommended approach to handling passwords

Two types of passwords are used in LSM software:

#### User password

The user password is required to log on to the locking plan or database.

#### Locking system password

The locking system password is programmed into all SimonsVoss components. This locking system password is saved to an encrypted section in the locking plan or database and cannot be read. Programmed SimonsVoss components can only be reprogrammed if the database knows the locking system password.

Two recommendations for managing passwords securely:

- To ensure optimum security for the whole locking system, the locking system password should be split into at least two parts, which are issued to different people on an individual basis.
- We strongly recommend writing the administrator and locking system password down and storing them securely in different places where they cannot be accessed by third persons.

The locking system operator should always be clear about one thing: what happens if the only person who knows the locking system password (or part of it) should suddenly no longer be available.



#### IMPORTANT

LSM Basic has a second, pre-defined user by default: AdminAL. The AdminAL login can be used by the Data Protection Officer to read the access lists. We also strongly recommend changing the default AdminAL password (system3060).

## 3.2 Create database (BASIC)

The first step in LSM software is to create a new database.

- 1. Launch the LSM software, e.g. using *Start/Programme/SimonsVoss/ Locking System Management*.
  - → The LSM software launches and the main menu appears with the items "Log on", "Log off" and "Setup".
- 2. Click on "Setup".

Project:	Ismdb		•	use as default
Default	Ismdb			
	New	Delete	Rename	
	New	Delete		

- 3. Click on "New" to create a new project.
  - Advanced uses cans used the "Advanced" button to make advanced settings, such as establishing the database directory or backups.

Project		×
New Project	New Database	
ОК	Cancel	

4. Enter a name for the project and confirm by pressing "OK".

*Click on the "Use as default" button to select this database automatically on starting up.* 



#### IMPORTANT

You can use the "Advanced" button in the "Setup" window in LSM Basic to set an alternative file path up as a database store. Locking plans should not be stored in user-specific files such as "Own files" or "Desktop", especially if several users access a copy of LSM Basic on the same computer.



## IMPORTANT

Only hide local directories as file storage locations in LSM Basic. To ensure the integrity of the locking system, it is not possible to install on network drives.

## 3.3 Add locking system

#### Establish password

If you have already created a project, you can now create a locking system.



### IMPORTANT

When creating the first locking plan in LSM Business or LSM Professional, licensing interrupts the process. The licensing of other modules is optional for LSM Basic.

- 1. Click on "Log on" in the main menu in the LSM software. Ensure that the right project is selected under "Setup" if necessary.
- 2. Enter the default password "system3060".

ogon	×
Project	New Database
User	Admin
Password	
ОК	Cancel

3. Click on "OK" to acknowledge the warning.



4. Re-enter the default password "system3060" and then establish a new user password.

Change user password		×
User name	Admin	
Current password		
New password:		
Confirm password		
Quality		
	0 bits	
ОК		



## IMPORTANT

The user password will be requested each time that you log on to the database. Several users with different passwords and rights can be created for LSM Business.

#### Create locking system

1. A set-up wizard opens up once you have issued a new password:

The database does not co	ntain any locking systems yet. What would y	/ou like to do?
<ul> <li>Create a new locking</li> <li>Import an LDB file</li> </ul>	system	
C Import a locking plan	from a CSV file	
C Do not perform any a	ctions	

- 2. Select "Create a new locking system" to add a completely new locking system. Confirm by pressing "OK".
- 3. Define the characteristics of the new locking system and issue secure passwords. You can make changes at a later stage any time; however, this very time consuming after initial programming of components due to the programming requirements.

Locking System Management - [	New Database - New locking system]		>
<u>F</u> ile Data <u>b</u> ase <u>V</u> iew Wi <u>z</u> ard	s <u>E</u> dit Repor <u>t</u> s <u>P</u> rogramming <u>N</u> etwork <u>O</u> pt	ions <u>W</u> indow <u>H</u> elp	- 6
🗶 📑 🕏 🎯	🔐 💁 🔐 📮 🤌 📧 🔹	▶ H H H G Q F <sub>2</sub> ?	
		- Protocol constation	
Name	Office_Munich	C G1	
Use as general locking level	no	C G2 © G2+G1	
Description	Example for the manual	✓ Automatically assign G1 TID	
	Example for the manual	☐ Virtual Network	
		□ Inheritance in the hierarchy	
G1 Old Paseword:		Transponder group hierarchy	
New Password (to protect file)	******	T Area hierarchy	
Confirm Password:			
Quality	76 bits	Dynamic time window for G2 transponder	
G2		C until a particular time of (next) day	
Old Password:		C Number of hours since last complete hour of booking	
New Password:	•••••••		
Confirm Password:			
Quality	76 bits	I Overlay Mode	
I high password security			
	Apply Exit Help		
		DES	CTOP-789HANE : COM(*) TCP port:6001 Admin NUM
- 4. Click on "Apply" to create the new locking system.
- 5. Click on "OK" to access the new locking system directly.



# IMPORTANT

The locking system password is programmed into all SimonsVoss components and managed with LSM software. You cannot make any changes to the programmed components without this locking system password, which is also indicated in the LSM software. *Observe the section on Recommended approach to handling passwords* [+ 32] to ensure that the locking system is operated without any problems.

If the locking system password is changed, all programmed components must be reprogrammed.

#### 3.3.1 Overview of protocol generations

	Gl	G2			
Access rights adminis- tration:	Locking devices	Locking device and ID medium (only ID me- dium in VN)			
Number of locking devices:	16,000	64,000			
Number of transpon- ders:	8,000	64,000			
Number of locking sys- tems on a transponder:	3	4 x G2 + 3 x G1			
Time zone groups:	5+1	100+1			
Loggable access events in a locking device:	Cylinder: 1,000	Cylinder: 3,000; SmartRelay: 3,600 (200 as Gateway)			
Physical access list on transponder:	No	1,000 per G2 locking plan (including date, time, locking device ID)			
Procedure for group ad- ministration:	Adjustable; number is defined in the group	No pre-setting required; rights and exceptions are entered onto transponder			
Replacement transpon- ders:	7 replacement transponders using overlay mode	No pre-setting required			
Network-capable:	Yes	Yes			

	Gl	G2				
Virtual network:	No	Yes, circulate Block IDs in VN				
Engage interval:	5 or 10 sec.	1 to 25 sec.; engage time can be doubled on an individual basis for transponders – max. 25 sec.				
Time-restricted author- isation:	Yes	Yes				
Battery warning:	Level 1; Level 2; storage mode	Level 1; Level 2; freeze mode				
Battery replacement:	SmartCD	Battery replacement transponder together with authorised transponder or SmartCD				
LSM/LDB:	All versions	LSM 3.0 and higher				
Active/passive:	Yes / yes	Yes/yes				

# 3.3.2 G1 locking system

The G1 standard is the first SimonsVoss protocol generation. This standard is compatible with the predecessor to LSM software: The LDB Locking Database Software.



# IMPORTANT

Only use this now obsolete protocol if you need to manage existing locking systems in a G1 environment. We recommend using G2 protocols with current G2 components for an up-to-date locking system.

# 3.3.3 G2 locking system

G2 is the current protocol generation used for SimonsVoss components. The G2 protocol offers many improvements compared to the preceding G1 protocol.



# IMPORTANT

Use the G2 protocol whenever possible. Using this protocol and its associated G2 components is the only way to set up and manage a locking system in line with the latest standards.

# 3.3.4 Mixed G2 + G1 system

The advantages of a mixed system (using G1 and G2 components in a locking system at the same time) also bring small disadvantages (poor overview of components used; not a real G2 experience).

Mixed systems basically operate in a G1 environment. The only advantage of a mixed system is that G2 components can also be used at the same time. G2 components are limited in their use in a mixed system.

A mixed system can enable older G1 components and current G2 components to be used at the same time. The backward-compatible support for older components enables you to use existing components or components already in use efficiently. This function is specially designed for such special cases. However, you are not able to use individual, particularly convenient properties of G2 components.

#### 3.3.5 Overlay mode

Overlay mode can only be activated in the G1" or "G2 + G1" protocol generations.

Overlay mode provides a very convenient feature for the restricted G1 protocol generation: the option of using newly programmed transponders directly without reprogramming the locking device. However, this feature only functions for up to 7 newly added transponders.

In the G2 protocol generation, such programming can be carried out using a transponder or a locking device.

7 further transponder IDs are added for each transponder ID if overlay mode is enabled:

Transponder IDs start at ID 64

- Transponder 1 with transponder ID 64: The Transponder IDs 65 71 are also reserved.
- Transponder 2 with transponder ID 72: The Transponder IDs 73 79 are also reserved.
- Transponder 3 with transponder ID 80: The Transponder IDs 81 87 are also reserved.
- and so on.

**Example – replacement transponder:** A replacement transponder needs to be programmed for Transponder 2 with Transponder ID 72 due to loss or theft. This replacement transponder is assigned the reserved Transponder ID 73. If the newly programmed replacement transponder is operated on an authorised locking device, the locking device engages and the "old"

transponder 2 with Transponder ID 72 is blocked from use on the locking device. The process can be completed with a corresponding feedback signal to the LSM software.

It is possible to hold up to 1,000 transponders in reserve in this way.

# 4 User interface

The LSM software user interface is divided up into the following sections:



1. Menu bar

Use the menu bar to open basic functions.

#### 2. Menu ribbon

You can use the menu ribbon to open important and frequently used functions directly.

#### 3. Locking system

This is where you can switch quickly between different locking systems in the project.

4. Groups

Bring users together into groups to work more effectively.

5. Areas

Bring locking devices together into areas to work more effectively.

6. Matrix

The matrix displays an overview of the selected locking systems.



# IMPORTANT

Some functions/entries may not be available, depending on the LSM software used.

# 4.1 User interface: Menu bar

#### 4.1.1 File

- 4.1.1.1 Print file/Matrix Prints the selected locking system.
- 4.1.1.2 File/Page view Shows the matrix as a preview before printing.
- 4.1.1.3 File/Printer set-up Set advanced print options, such as page size.
- 4.1.1.4 Change file/User password This is where you can change the password for the user currently logged in.
- 4.1.1.5 File/New (BASIC) This is where you can add a new project.
- 4.1.1.6 Open file/backup (BASIC) Import a backup generated previously.
- 4.1.1.7 File/Save under / Backup (BASIC) Save the current locking plan as a backup.
- 4.1.1.8 File/Finish Log off from project and exit LSM software.

# 4.1.2 Database

4.1.2.1 Database/Log onLog on to a project. This function is only available if you are not currently logged on to a project.

### 4.1.2.2 Database/Log off

Click on "Log off" to log off from the current project.

### 4.1.2.3 Database/Setup

This is where you can manage projects or databases. You have the following options open to you:

- Edit an existing project.
- Delete an existing project.
- E Create a new project.
- A default project can be selected, which will load automatically.
- 4.1.2.4 Database/Backup (BUSINESS)

You can used this function to back up your database and restore backedup databases.

#### 4.1.3 View

4.1.3.1 View/Status bar

Shows or hides a status bar on the lower edge of the screen. The status bar is shown by default. The status bar displays items such as the current locking system status, computer name and connection with the programming device.

#### 4.1.3.2 View/Edit

You can use *View/Edit* to show an additional menu ribbon which provides quick access to the following functions:



- 1. Locking system properties
- 2. Area

- 3. **Door**
- 4. Locking device
- 5. Transponder group
- 6. Transponders
- 7. Public holiday list
- 8. Public holiday
- 9. Time zones
- 10. **Person**
- 4.1.3.3 View/areas/transponder groups

This view forms a matrix which provides a visual display of hierarchical personnel and room structures. The matrix is also able to authorise transponder groups for complete areas. This makes it quick and easy to issue basic authorisations in this matrix. The Doors/Persons view allows you to issue deviating authorisations in the form of individual extensions or restrictions.

If you need to work with transponder groups and areas in the locking system, this option provides you with the following decisive advantages:

- Reduced view, where only transponder groups and areas are displayed.
   This makes it easier to find your way in the matrix.
- Issuing or withdrawing authorisations for entire areas from entire groups.
- Persons who are added to a group at a later stage receive all group rights automatically.



#### 4.1.3.4 View/Doors/Persons

This view displays the individual authorisations for all persons for individual doors. Obviously, the matrix is extensive as a result. However, it allows precise setting of exceptional-case authorisations, enabling pre-set group authorisations to be extended or even reduced. This view is thus suitable for implementing individual extensions or restrictions after the basic structure has been established at *Areas view/Transponder groups*.

Locking System Management - [N	New Database - Matrix view : Doors/people []]	adaw	Hala								<u>800</u> 3	
	Cont Reports Programming Network Options Will	NUDE	Teib	~	1.10	0		εŤ	-	2		
		P.I.	1	^	54	• 7		-		1		
Locking system: >> Office_Munich			1	Of	fcle	aning	j de	pro	-			
Transponder groups     System group]     Cleaning     S' (System group)     S' cleaning     S' development     S' product management	Simons Voss			Z PB NAME (PEUPLE Miller, James	🔵 🔶 cleaning, 1	Cleaning, 2	Hansen, Daniel	Peterman, Jennifer	12 12			
	NAME (DOORS/LOCKS)	PB	τz	-	10	1010	e (					
	E development_office1	*			<b>*</b> ×	× 5	< <sup>*</sup> X					
	development_office2	+	8 - 12 19 - 19		×	× 5	< <sup>*</sup> X					
	development_office3	*			×	× 5	< <b>*</b> X					
	DM_TN4	+		×	×	× 5	< <sup>*</sup> ×	×				
	Emergency exit	1			×	× 5	< X	×				
	Main entrance	+	0	×	X	× 5	< X	×				
	Side entrance	*			×	× 5	< <sup>1</sup> ×	×				
development	product_management_office1	+		×	ľ×	× 5	< 🗌	۲×				
outer shell	product_management_office2	*			×	× 5	< 🗌	ľ×				
🖌 product management	product_management_office3	+			×	× 5	<	"×				
idle			ESKT	OP-78	39HA	NE : CO	)M(*)	тср	port:60	01	Admin	

#### 4.1.3.5 View/All secondary areas/Open groups

This view setting opens all areas and groups, thus displaying all locking devices, even if individual areas have been hidden beforehand.

#### 4.1.3.6 View/Log (Business)

The log can be used to view all actions which have been carried out on the database. You can identify which user created or changed a particular locking device or view log-ons to the database, for example.

- Logs can be filtered as you require by a time period, a user or an action.
- The list can then be sorted by clicking on the required column heading, e.g. by date, time or name.

#### 4.1.3.7 View/Matrix settings

Each user has the option of setting up their preferred screen as their default screen. This screen is shown after logging on. Different basic settings can also be enabled here.

You can use the menu bar to adjust settings on the standard view at *View/ Matrix view properties*.

atrix view properties	2
Font Microsoft Sans Se	nf Select
Field height     22       Adapt height to text       Transponders in the horizontal bal       Display crosshair       Hide deactivated transponders	Allocation of rights  Allocation of rights  Single mouse-click  C Double-click  C Ctrl + single mouse-click  Save immediately
Logo Width 366 Height 344 Set default values	Load matrix view at start  C None  Areas/transponder groups  Doors/people
ОК	Cancel

#### Font

You may select any fonts.

#### Field height

You can set the height for fields in points.

#### Adjust height to the typeface

Adjust the height automatically to the typeface.

#### Transponders in the horizontal bar

Transponders are displayed in the horizontal bar by default. You can change this setting if you wish to manage more locking devices than transponders.

### Shows crosshair

Shows a crosshair for more precise navigation.

#### Hide deactivated transponders

Hides deactivated transponders.

#### Logo

Change the size of the logo.

#### Issuing of authorisations

Mistakes can be quickly made with a mouse click, particularly in the case of large locking systems. In such cases, we recommend changing this setting.

Activate "Save immediately" if you wish to apply changes to authorisations immediately by simply clicking the mouse.

#### 4.1.3.8 View/Additional columns

Additional columns can be added to the horizontal and vertical borders in the matrix to provide additional useful information to the user. The settings made only apply to the screen view in which they were configured. Different information is available, depending on the screen type. You can also set the sequence in which the data is displayed as you require. This is saved as a user-specific setting (Windows user).

This is how you unhide additional columns in the matrix:

- 1. Select the *View/Additional columns* menu bar followed by the required view, e.g. *Transponders/Persons.*
- 2. Highlight all other information which you wish to be displayed.
- 3. Sort the sequence using "Up" or "Down".
- 4. Click on the "OK" button to confirm your selection.

#### 4.1.3.9 View/Refresh

Refreshes the matrix view.

You may need to update the matrix manually in exceptional cases, especially for extensive locking systems or special settings.

#### 4.1.3.10 Manage View/Filter

The introduction of filters has made it easier to manage a locking system. You can select a wide variety of filter options and apply these filters to an extensive variety of persons or person groups. This not only allows you to access more information by displaying optional additional columns, but the filter function also enables you to ensure that your views are clearly arranged.

Fi	ter management		×
	Filter name	State	New
			Edit
			Remove
			Apply
			Set as default
			Exit

#### New

Creates a new filter

Edit

Edits a selected filter

Remove

Removes a selected filter

Apply

Applies the selected filter. The button changes to "**Turn off**" if a filter is applied.

Set as default

This filter will be used by default

Finish

Exits from filter management and returns to the matrix



# IMPORTANT

A filter only remains active until it is switched off again.

You can use the "New" button to create a new filter:

Filter name	<b>F</b> (1) (1) (1) (1)				
Filter name <ul> <li>For all users</li> <li>For user:</li> <li>Admin</li> <li>For user:</li> <li>Administratoren</li> </ul> <ul> <li>Administratoren</li> <li>Control Unit</li> <li>Conte</li> <li>Conte</li></ul>	Filter attributes:				
Filter name			г	Lock type	
For all users     For users     Admin     For users     Administratoren     Administratoren     Transponder type     G1 Biometric reader user     G1 Gata     G2 Cylinder     G2 Cylinder     G2 Cord     G2 Door Montoring Smart Handle     Gateway     Select     Inte zone:     Inte zon	Filter name				
<ul> <li>For all users             <ul></ul></li></ul>				AX furniture lock	1
C       For user:       Admin       Image: Construction of tealer         C       For user group:       Administratoren       Image: Construction of the lock         Image: Construction of type       Image: Construction of the lock       Image: Construction of the lock         Image: Construction of type       Image: Construction of the lock       Image: Construction of the lock         Image: Construction of type       Image: Construction of the lock       Image: Construction of the lock         Image: Construction of type       Image: Construction of the lock       Image: Construction of the lock         Image: Construction of the lock       Image: Construction of the lock       Image: Construction of the lock         Image: Construction of the lock       Image: Construction of the lock       Image: Construction of the lock         Image: Construction of the lock       Image: Construction of the lock       Image: Construction of the lock         Image: Construction of the lock       Image: Construction of the lock       Image: Construction of the lock         Image: Construction of the lock       Image: Construction of the lock       Image: Construction of the lock         Image: Construction of the lock       Image: Construction of the lock       Image: Construction of the lock         Image: Construction of the lock       Image: Construction of the lock       Image: Construction of the lock <td< td=""><td>(• For all users</td><td></td><td>  </td><td>AX Smart Handle</td><td></td></td<>	(• For all users			AX Smart Handle	
C       For user group:       Administratoren         VG1 Cylinder       VG1 Cylinder         VG1 Bometric reader user       VG1 Cylinder         VG1 Bometric reader user       VG1 Cylinder         VG1 Cylinder       VG1 Cylinder         VG1 Cylinder       VG1 Cylinder         VG1 Bometry       VG1 Cylinder         VG1 Cylinder       VG2 Cylinder Mfare         VG1 Cylinder       VG2 Cylinder Mfare         VG2 Cylinder Mfare       VG2 Cylinder Mfare         VG2 Cylinder       VG2 Cylinder	C For user:	Admin		G1 Control Unit	
Transponder type         Image: Construction of the lock	C For user group:	Administratoren			
Transponder type         G1 Biometric reader user         G1 Biometry         G1 Biometry         G1 Biometry         G1 Biometry         G1 Biometry         G1 Card         G2 Cylinder         G2 Coor Monitoing Smat Handle         G2 Door Monitoing Smat Handle         G2 Mile         With network         Programming demand         Unprogrammed locks     <	S Torusci group.	Administratoren		G1 Electronic mortise lock	
Image: Save       Image: Save         Image: Save       Image: Save	Transponder type			G1 Furniture lock	
I biometric reader user       Image: Constraint of the constra				G1 Module output	
I biometry         I biometry         I card         I card <t< td=""><td>G1 Biometric reader user</td><td></td><td>^</td><td>G1 Smart Relay</td><td></td></t<>	G1 Biometric reader user		^	G1 Smart Relay	
Image: Card Signar Clip       Image: Card Signar Clip         Image: Card Signar Clip       Image: Card Signar Clip <td></td> <td></td> <td></td> <td>G2 Cylinder</td> <td></td>				G2 Cylinder	
Image: Save       Image: Save         Image: Save       Save				G2 Cylinder Mifare	
Image: Second				G2 Door Monitoring Cylinder	
G2 Card       ✓       G2 Door Monitoring Smart Handle         ✓ G2 Card       ✓       G2 Card       ✓         Transponder attributes       ✓       G2 Card       ✓         ✓ All       ✓       ✓       All       ✓         ✓ Wth lapsed expiry date       ✓       ✓       ✓       ✓         ✓ Wth validity period       ✓       ✓       ✓       ✓         ✓ Programming demand       ✓       ✓       ✓       ✓         Department:       ✓       ✓       ✓       ✓         All       ✓       ✓       ✓       ✓         Department:       ✓       ✓       ✓       ✓         All       ✓       ✓       ✓       ✓         Transponder group list       ✓       ✓       ✓         ✓       All       ✓       ✓       ✓         Transponder group list       ✓       ✓       ✓       ✓         ✓       All cones       ✓       ✓       ✓         ✓       All cones       ✓       ✓       ✓         Transponder group list       ✓       ✓       ✓       ✓         ✓       ✓       ✓       ✓       ✓				G2 Door Monitoring Smart Handle	
C2 Card       Carcel         Transponder attributes       All         Wth lapsed expiry date       All         Wth validty period       All         Transponders without people       Programming demand         Department:       All         All       Vith out network         Department:       Caction/Building         All       Select         Transponder group list       Select         Transponder group list       Select         Transponder group list       Select         Tme group:       Ime zone:         Ino       Transponder group list         Save       Cancel	GI Iransponder			G2 Door Monitoring Smart Handle	
Transponder attributes       Door/lock attributes <ul> <li>All</li> <li>With lapsed expiry date</li> <li>With validity period</li> <li>Programming demand</li> <li>Transponders without people</li> <li>Department:</li> <li>All</li> <li>With network</li> <li>Unprogrammed locks (LID = 0)</li> <li>Doors without locks</li> <li>Location/Building</li> <li>Gateway</li> <li>Select</li> <li>List of areas</li> <li>Select</li> <li>List of areas</li> <li>Select</li> <li>Ine zone:</li> <li>no</li> <li>Save</li> </ul>	I v G2 Card		×	G2 Euroituro look	
<ul> <li>All</li> <li>With lapsed expiry date</li> <li>With validity period</li> <li>Programming demand</li> <li>Transponders without people</li> <li>Department: <ul> <li>All</li> <li>With network</li> <li>Programming demand</li> <li>Unprogrammed locks (LID = 0)</li> <li>Doors without locks</li> <li>Location/Building</li> <li>Gateway</li> </ul> </li> <li>Transponder group list <ul> <li>Transponder group list</li> <li>Transponder group list</li> <li>Select</li> </ul> </li> <li>Time group: <ul> <li>no</li> <li>Save</li> </ul> </li> </ul>	- Transponder attributes			Door/lock attributes	
With lapsed expiry date   With validity period   Programming demand   Transponders without people   Department:   Al     Transponder group list   Valid transponder group list   Al transponder group list   Select     Time group:   no     Save     Cancel	• All			( All	
Image: Solution of the second of the seco	C With langed evening date			C With potwork	
Vitin Validity pend   Programming demand   Transponders without people   Department:   All     Transponder group list   Val transponder group list   Select     Time group:   no     Save     Cancel					
Programming demand   Transponders without people   Department:   All   V   All transponder group list   Transponder group list   Transponder group list   Select   Time group:   no   Save     Cancel	With validity period			Without network	
Transponders without people   Department:   All   Transponder group list   ✓ All transponder group list   Transponder group list   Select     Time group:   no     Save     Cancel	Programming demand			Programming demand	
Department:   All     Transponder group list   Image: Transponder group list   Select     List of areas   Image: List of areas   Image: List of areas   Image: List of areas   Image: List of areas   Save     Cancel	Transponders without people			Unprogrammed locks (LID = 0)	
Department:   All     Transponder group list   ✓ All transponder groups   Transponder group list   Select     ✓ All zones   ✓ Ime group:   no     Save     Cancel				Doors without locks	
All   Transponder group list   All transponder groups   Transponder group list   Select     Time group:   no     Save     Cancel	Department:			Location/Building	
Transponder group list   Image: All transponder group list   Save     List of areas     List of areas     Image: List of areas     Save     Cancel	All	•		Gateway	Select
All transponder groups   Transponder group list   Select     Ime group:     no     Save     Cancel	Transponder group list			List of areas	
Transponder group list     Select       Time group:     Image: Select       No     Image: Select       Save     Cancel					
Time group:     Time zone:       no     Image: Cancel					Salact
Time group:     Time zone:       no     Image: Cancel	I ransponder group list	Select		List of areas	J CICU.
no     Image: Cancel	Time group:			Time zone:	
Save	no	<b>v</b>		no	<b>_</b>
Save					
	Save				Cancel

#### Filter name

Enter a meaningful name for the new filter.

### User restriction

User or user group which can apply the filter.

#### Transponder type

Type of transponder which should be displayed.

#### **Transponder properties**

Restrictions which concern the properties of the transponder (e.g. validity period or programming requirement).

# **#** Transponder group list

Restrictions which concern the transponder's assignment to a group (e.g. "Executive management" transponder group).

#### Locking device type

Type of locking device which should be displayed.

### Doors/Locking system properties

Restrictions which concern the properties of the locking device (e.g. with network or programming requirement).

### 👪 Areas list

Restrictions which concern the locking device's assignment (e.g. "Reception" area).

### 4.1.4 Installation wizards

The installation wizards make it easier for new users to start using the LSM software. Experienced users also benefit from these wizards, which can be used to make all settings one after another from a central point.

#### 4.1.4.1 Wizards/Door

This wizard can be used to add a new door step by step.

#### 4.1.4.2 Wizard/Person

This wizard can be used to add a new person step by step.

# 4.1.5 Edit

4.1.5.1 Edit/Properties: Locking system Settings for the currently selected locking system.

#### Locking system properties: Name

E Lo	ocking System Management - [New Database	- Locking system properties]	- 🗆 X									
Ei Ei	ile Data <u>b</u> ase <u>V</u> iew Wi <u>z</u> ards <u>E</u> dit Repo	r <u>ts P</u> rogramming <u>N</u> etwork <u>O</u> pti	ions <u>W</u> indow <u>H</u> elp									
2	× 🛱 🛱 🎯 😚 🚱	67 7 4 4 4	► N X H G Q Fo ?									
$\diamond$	10575V											
	Name	Office_Munich	C G1									
9	Use as general locking level	Standard	C G2									
	Locking system ID	8348	© G2+G1									
00	Extended SID	15862638	Virtual Network									
0	Description	Example for the manual	Job self-more in the Manager									
23			T Area hierarchy									
	Overlay Mode		Dynamic time window for G2 transponder									
å			<ul> <li>Do not change unite window on gateway</li> <li>C until a particular time of (next) day</li> <li>C Number of hours since last complete hour of booking</li> </ul>									
	Apply Properties	Add Remove	<u>B</u> oit <u>H</u> elp									
idle			DESKTOP-789HANE: COM(*) TCP port:6001 Admin NUM									

#### Name

Name of the locking system

#### Use as a common locking level

Establishes the common locking level

#### Locking system ID

Locking system number

#### Extended SID

Additional distinctive feature of the locking system

### Description

Blank field to describe the locking system

#### Operate in overlay mode (G1 only)

Activates the overlay mode. *This function must already be enabled* when the locking system is created. You cannot change it afterwards.

### Protocol generation

Selects the extension variant for the hardware components

### Inheritance in the hierarchy [LSM BUSINESS]

Select the inheritance areas

#### **II** Dynamic time slot for G2 transponders

Advanced time settings for use with gateways:

#### **#** Do not change time window on the gateway

There is no time limit on the validity period for any G2 transponders able to book at the gateway.

### **#** Until a specific time on the (next) day

There is a time limit on the validity period for all G2 transponders able to book at the gateway.

### Number of hours from the last full hour of the booking

The validity of all G2 transponders able to book at the gateway is extended by the specified number of hours.



# IMPORTANT

# Virtual network not required

You do not need to configure a virtual network to use a gateway to manage time frames.

### Locking system properties: Locking devices

	me Locks Doors Transpo	onder   Transponde	r groups Areas Password Special	TIDs   PIN-Code Terminal   Car	rd management G1   G	i2 card management
	Locking system: Office	e_Munich	Level:	Standard		]
	Serial number	Lock ID	Door	Area	Туре	Battery replacement
	000089H	128	Main entrance	outer shell	G2 Cylinder	
	1A04R8K	130	Emergency exit	outer shell	G2 Cylinder	
1	1A053XB	129	Side entrance	outer shell	G2 Cylinder	04/01/2016 👻
	1-00002	131	product_management_office2	product management	G2 Cylinder G2 Cylinder	
	L-00003	133	product_management_office3	product management	G2 Cylinder	Scheduled
	L-00004	134	development_office1	development	G2 Cylinder	Scheduled
	L-00005	135	development_office2	development	G2 Cylinder	04/01/2016 -
-	L-00006	136	development_office3	development	G2 Cylinder	
						1
						Apolu
_						
-						
						also show Locks without door
		2010-2	22 0 0 0			
	Print view	Total: 9	Selected: 0			

This tab gives you an overview of the locking devices used in the locking system. The devices are all displayed in detail in a table.

Notes on battery replacement can also be recorded:

The scheduled battery replacement is displayed on the warning monitor and in the action list in the respective locking device. You also have the option of entering the scheduled battery replacement in the action list for the respective locking device in conjunction with a number of locking devices. You can enter a completed battery replacement for one or several locking devices under 'Last'.

# Locking system properties: Doors

<u>F</u> ile	Data <u>b</u> ase <u>V</u> iew	Wizards Edit R	epor <u>t</u> s <u>P</u> rogra	amming <u>N</u> et	work <u>O</u> ptions	: <u>W</u> indow <u>H</u> elp	ox bl Ce	0 5	2	- 8
Na	ame Locks Doors	Transponder   Tra	insponder group:	s Areas Pas	sword Special	TIDs   PIN-Code Te	minal Card manag	jement G1   G2 card m	nanagement	
	Locking system:	Office_Munich			Level:	Standard				
"	Door		Location	Building	Floor	Room number	Area	Change assign	nment to area	
	development_office development_office development_office Emergency exit	2 2 3					development development development outer shell	System area	] Execute	• 
	Main entrance product_manageme product_manageme product_manageme	ent_office1 ent_office2 ent_office3					outer shell product manage product manage product manage	Modify allocati	on in the buildi	ng structure
	Side entrance						outer shell		/building [	no 💌
								Floor	Fuerrite	1
81										
								I also show do system	ors without loc	king
	Print view	Total: 9			Selected: 1					
	Apply	Properties	Add	Remov	/e	Exit	Help			

This tab displays the correlation between the doors contained in the locking system and their assigned areas. The devices are all displayed in detail in a table. It is possible to select one or more doors and assign them to a specific area, location or floor. Ensure that the areas, locations or floors have already been added.

# Locking system properties: Transponders

Lo	Locking System Management - [SmartXChange - Locking system properties] X																							
Fi Fi	e D	atabase	View	Wizards	Edit	Reports	Progr	amming	Netw	ork (	Options	Wind	ow H	Help									-	8 X
Z,	×	Ę	<b>a</b>	0	<b>6</b> ?	<b>;</b>	<b>?</b>	?		M	•	₽	M	₽X	₽↓	9	Q		F <sub>0</sub>	?				
	Nam	ne   Locks	Doors	Transp	onder	Transpon	der group	s Areas	Pass	word	Special T	IDs PI	N-Code	e Terminal	Card	d manag	ement G	61   G	i2 card r	manage	ement			
	[	Locking	system:	Beis	pielanla	ce LSM 3	(			Leve	ł:	S	tandaro	d					7					
	ſ	0	-,		Carial								T		_	Chanc	ne assior	nment	to trans	nonder	r groups -			,
		Hubert Karte 1			02U2E UID-0	EP8 100000		3210 3206	Tes Tes	tgruppe tgruppe	2		G2 Tr G2 Ca	ransponder ard	r	The	highligh ed to the	ited tra e grou	anspond ps selec	lers will cted be	be low.			
00		Karte 2 Karte 3 Karte 4			UID-0 UID-0 UID-0	100000 100000 100000		3207 3208 3209	Tes Tes Tes	tgruppe tgruppe tgruppe			G2 Ca G2 Ca G2 Ca	ard ard ard		1. Do pr dem	o not ch revents a and	ange additio	groups: onal prog	grammir	ng			
0																in 2. D pr	the affe o not ch revents a	ected l nange additio	ocks transpo mal prog	nders: grammir	ng			
																in	the tran	nspond	lers					
23																0	Do not c Do not c	change change	e groups e transp	s onder				
																[Sys	stem gro	De in	the arrow	ID			-	
å																Su Stil Mo	pply Il free oved	123111	une grou	.p		0 4 1		
																				Execute	е			
																-G1 TI	D for G2	trans	ponders				1	]
		<													>	/	Assign		Ma	anage		Remo	ove	
		Pri	nt view		Total: 5	i		Selected: 0			Free G	1: 7584	Fre	e G2: 620	69									
		Apply		Proj	perties		Add	R	emove	:		Exit		Help										
idle														SANT	ABAR	BARA :	COM3	ТСР	port:60	000	Adm	nin	NUM	

This tab gives you an overview of the transponders contained in the locking system. The devices are all displayed in detail in a table.

It is possible to select one or more transponders and assign them to another group. Ensure that the transponder groups have already been added.

# Locking system properties: Transponder groups

SIL					
	Locking system: Office_Munich	Level: Stand	ard		
	Transponder group	Superordinate group	Stock	Free stock G1	Time group name
	[System group]		1	0	-
	cleaning		8	5	
-	development	1000	8	7	-
	product management		8	1	
	<			0.000	>

This tab gives you an overview of the transponder groups used in the locking system. The devices are all displayed in detail in a table.

# Locking system properties: Areas

Loc	king System Management - [New Database - Locking syste : Data <u>b</u> ase <u>V</u> iew Wizards <u>E</u> dit Repor <u>t</u> s <u>P</u> rogramr	em properties] ming <u>N</u> etwork <u>O</u> ptions <u>W</u> indow <u>H</u> elp	-
Z	🗙 📑 🛱 🍓 😚 🎯 😚 🗟	4 II I I I I IX II	9 Q <b>F</b> p ?
	Name   Locks   Doors   Transponder   Transponder groups	Areas Password Special TIDs PIN-Code Terminal Ca	rd management G1   G2 card management
	Locking system: Office_Munich	Level: Standard	
	Ama	Supersetinate area	Time range game
-	development		
	outer shell	-	
00	product management	-	
0			
23			
8			
	Print view Total: 3		
	Apply Properties Add	Remove Exit Help	
idle		DESKTOP-789HA	NE : COM(*) TCP port:6001 Admin NUM

This tab gives you an overview of the areas used in the locking system. The devices are all displayed in detail in a table.

E Lo	ocking System Management - [New Database - Locking system properties]	- 🗆 X
Ei Ei	ile Data <u>b</u> ase <u>V</u> iew Wizards <u>E</u> dit Repor <u>t</u> s <u>P</u> rogramming <u>N</u> etwork <u>O</u> ptions <u>W</u> indow <u>H</u> elp	- 8 ×
$\boldsymbol{\mathcal{Z}}$	X 🐺 🛱 🍓 🔐 😳 🔐 📮 🗲 K 4 ▶ N 🗵 № № ₽ 67 Q Fo ?	
	Name   Locks   Doors   Transponder   Transponder groups   Areas Password   Special TIDs   PIN-Code Terminal   Card management G1   G2 card management	t
	Locking system: Office Munich Level: Standard	
	Old Password:	
00	Confirm Password:	
0	Quality Ubits	
	G2 Old Password: New Password:	
	Confirm Password: Quality 0 bits	
*	Image: Weight password security	
	Apply Properties Add Remove Evit Help	
idle	DESKTOP-789HANE : COM(*) TCP port:6001 Adu	min NUM

This is where you can change the locking system passwords used to change component programming.



# IMPORTANT

The locking system password is programmed into all SimonsVoss components. You cannot make any changes to the programmed components without this locking system password. Make a note of the locking system password and keep it in a safe place. All programmed components must be reprogrammed if the locking system password is changed.



# IMPORTANT

Components with different locking system passwords cannot communicate with one another.

#### Locking system properties: Special TIDs

E Lo	Locking System Management - [SmartXChange - Locking system properties] -											
Fi Fi	e D	atabase View Wiz	ards Edit Reports Pr	ogramm	ing Net	twork Opti	ons Windo	w Help				- 8 ×
7	×		🛊 🔐 🚱 🔐	•	4	4		×	₩ <b>G</b> Q	Fg ?		
	Name   Locks   Doors   Transponder   Transponder groups   Areas   Password   Special TIDs   PIN-Code Terminal   Card management G1   G2 card management											
	Locking system: Beispielanlage LSM 3.x Level: Standard											
	Deactivated TIDs in the locking system         G1: Authorised at the following locks:											
9		Owner	Serial number	TID	TID G2	State	Date	Transponde	Serial number	Door	Area	
<u> </u>		-, -	-		3200	Moved		[System gro				
00		-, -			3201	LOST		[System gro				
0												
												_
28												
									<			>
<b>O</b>									Total: 0			
									TID: G2TID:			
		<						>				
		Total: 2						Activate				
		Apply	Properties Add		Remo	ve	Exit	Help				
idle	le SANTABARBARA : COM3 TCP port:6000 Admin NUM											

- The large, left-hand table shows an overview of all transponders which have been deactivated, removed, lost or not returned.
- The smaller table on right-hand side shows all locking devices which the transponders selected in the left-hand table are authorised to use.
- The display pane under the small, right-hand table displays information and comments on the deactivated transponder.
- You can use the "Activate" button to re-activate a selected transponder (depending on the pre-set status). In this case, a new TID is assigned to the transponder in the G2 protocol, which can generate programming requirements for the authorised locking devices.

#### Locking system properties: PIN code terminal

E La	ocking System Management - [New Database - Locking system properties]									<u> </u>	□ ×
Fi	File Database View Wizards Edit Reports Programming Network	Options	Windo	w Help							_ & ×
$\mathbb{Z}^{i}$	🗶 購 🛱 🚳 🔐 🚱 🔐 📑 🥖 IK	•	×	×4 I	эĻ.	9	Q	F <sub>0</sub>	?		
	Name   Locks   Doors   Transponder   Transponder groups   Areas   Passwon	d Special T	IDs PIN	-Code Termin	al Card	managem	ent G1	G2 card i	managem	ient	1
	Locking System: Office_Munich	_evel:	St	andard							
	Operating mode PIN	V code user:						 I⊂ Un	issued		
	(     PIN (knowledge)	ransponder		Lock			Issued	Р	rogrammi	ng demand	
00	C Transponder + PIN (possession and knowledge)										
0	C Transponder + PIN 2 (possession and knowledge - unchangeable PIN)										
	PIN-Code length 4										
23	PIN-Code Terminal										
å	Program / Reset										
	Init	tial PINs	Replac	ement PINs	Tes	st	Sel	ect all		Deselect	all
	Apply Properties Add Remove		Exit	Help	p						
idle				DESKTOP-	789HANE	: COM(*	) TCP p	ort:6001		dmin	

You can use this tab to add PIN code terminals and activate extended configurations.

For setting up the Pin Code Terminal, refer to the "Pin Code Terminal Manual" documentation, which you can find on the SimonsVoss homepage. (www.simons-voss.com) finden (siehe *Help and other information* [▶ 173]).

# Locking system properties: G1 card management

Locking System Management - [New Database - Locking system properti	ies] — — X
Name Locks Doors Transponder Transponder groups Areas Pas	ssword   Special TIDs   PIN-Code Terminal Card management G1   G2 card management
Locking system: Office Munich	Level: Standard
	Card reader:
SimonsVoss sector:	Reset card
Access password for the card:     Enter password	Access password for the card:
Preset SmartReader password	Current locking system password
Shunt lock      Read      Conte	Read
Reset	Reset
<ul> <li>Applications on creating:         <ol> <li>First initialisation. The preset SmartReader password is selected as the access password.</li> <li>Sector change. The current locking system password is entered as the access password.</li> <li>Locking system password change. Requirement: the locking system password has already been changed to the new password in the database. The old locking system password is then entered as the access password.</li> </ol> </li> </ul>	The reset card resets the SmatReader to the manufacturer's configuration. This releases the SmatReader for use in another locking system, for example.
Apply Properties Add Remov	ve Exit Help
idle	DESKTOP-789HANE : COM(*) TCP port:6001 Admin NUM

Establish advanced properties and settings for your G1 cards. *The "LSM card management" manual provides further information on card configuration.* 

### Locking system properties: G2 card management

E Lo	ocking System Management - [	New Database -	Locking system proper	rties] etwork Ontions	Window	Help					<u>1800</u> 25		×
2	× 🛱 🛱 🍳		6? <b>?</b> 4	4 4		₩ ₩	9	Q,	F <sub>0</sub>	?		-	
	Name Locks Doors Trans	ponder   Transpo	nder groups   Areas   Pa	assword Special	TIDs   PIN-Code	e Terminal   Card	l managen	nent G1	G2 card	managen	nent		
	Locking system: Offi	ce_Munich		Level:	Standard	8							
	la.	Card type:		Not selected		<b>_</b>							
		Configuration:			÷								
00		Memory space r		Bytes									
		Access instance		, cara prone									
23													
		Name	Value		Description								
				1	- Ĕ								
				Print vie	w								
	Apply Pro	perties	Add Remo	ove	<u>E</u> xit	<u>H</u> elp							
idle					DES	KTOP-789HAN	E: COM	(*) TCP	port:600	1	Admin	NUM	11.

Establish advanced properties and settings for your G2 cards. *The "LSM card management" manual provides further information on card configuration.* 

4.1.5.2 Edit/Properties: Locking device

Show and edit properties for the locking device currently highlighted.

A double click on the locking device opens the properties of the corresponding locking device directly.

#### Locking device properties: Name

Locking System Management - [New Database - Lock properties]	8 <u>.000</u> 8	
📰 File Database View Wizards Edit Reports Programming Network Options Window Help		_ & ×
S 🗶 🐺 🛱 🧠 🔐 🧐 📅 📮 🧲 14 4 🕨 H 🗵 🗛 🕢 🥵	?	
Name Door Transponder Actions Mech. Features Configuration/Data State Audit Trail		
Door Main entrance		
Change assignment of locking device/door		
Type G2 Cylinder		
Multiple Copy		
тыцию сору		
Apply Properties Add Remove Exit Help		
idle DESKTOP-789HANE : COM(*) TCP port:6001 A	dmin	NUM //

#### Serial number

Displays the locking device's serial number. The "..." button shows the door's properties.

#### Door

The door assigned to the locking device can be changed if the "Locking device assignment/Change door" checkbox is enabled. The "M" button shows the locking device in the matrix.

#### Type

Type of locking device.

#### Make multiple copies

Generates as many copies of the locking device with the same properties as required. A sequential number is also added to the name of the locking device.

#### Locking device properties: Door

				1						a de la de la dela	
Door Transpond	er Actions Me	ch. Features	Configuration	/Data Stat	e Audit Trail						
.ock:	000089H										
oor designation	Main entranc	e		5.0		Door attrib	outes for elect	ronic mortice l	ock —		
ocation	no	Floo	or.	ſ		C Left lo	ck	• Right loc	k		
uilding	no	- Roc	om number	j		( Opens	inwards	• Opens of	itwards		
oor code	DC-00001					Color	whi	te	-		
escription					^	Lock type	fror	nt door	•		
					4	Distance-	н	0 💌			
ocks	000089H / C	i2 Cylinder				Distance-	V	]0 <u>-</u>	1		
ime 7009											
ine zone	Ino				-	Door attrib	outes for cylin	der	357		
The door is assigned to	the following are	as:				Outside di	mensions	55	mm		
Locking system		Area			Level	Inside dim	ensions	55	mm		
Office_Munich		outer shell			Standard	Metal	Door				
						I Outsid	le lack				
1						Smart	Reader				
Manage						PIN-C	ode Terminal				
Programming device -	99					Attributes	from the lock	: L_	Use		
Type:	D	evice:	✓ Non-a	llocated devi	ces						
SmartCD	•	Default			•						

#### Door identifier

The name of the door.

# Location

Location where the door is situated. (Locations need to have been added beforehand)

Building

Building where the door is situated. (Buildings need to have been added beforehand)

Floor

Floor on which the door is situated.

#### Room Number

The room number of the door.

### Door code

Internal identifier for the door.

#### Description

Blank field to describe the door.

#### Locking devices

Locking devices which are assigned to the door.

#### Time zone

The door's time zone.

#### Programming device

Selects a specific programming device. (Particularly necessary for LON and WaveNet. Locking devices to which LON or WaveNet is assigned can also be programmed online wirelessly without a programming device.)

### Door attributes

Information on the mortise lock and locking device. This allows you to see what replacement components are required if you need them.

#### Locking device properties: Transponders

📕 Lo	Locking System Management - [SmartXChange - Lock properties] - 🗆 🗙								
Fil	e Database View Wizards Edit Reports Programming Netw	ork Options Windo	w Help		_ 8 ×				
<b>∠</b> →	🗶 📑 🛱 🍓 😚 🚱 😚 🦻	I  I	• • • • •	Q <b>Fo ?</b>					
	Name Door Transponder Actions Mech. Features Configuration/Data State Audit Trail Lock components								
	Lock: 00DS8G1	Door: Mifare		Search	_				
	Serial number Owner Locking system	Area	Transponder group TID	Access	<u> </u>				
	UID-01000004098F         Karte 3         Beispielanlage LSM           UID-01000004098F         Karte 3         Beispielanlage LSM           UID-0100000409D5         Karte 1         Beispielanlage LSM	[System area] [System area] [System area]	Testgruppe 3208 Testgruppe 3208 Testgruppe 3206	B Exception(G2) Exception(G2_AD) Exception(G2)					
00	UID-0100000409D5         Karte 1         Beispielanlage LSM           UID-01000006327A         Karte 4         Beispielanlage LSM           UID-01000006327A         Karte 4         Beispielanlage LSM	[System area] [System area] [System area]	Testgruppe 3206 Testgruppe 3209 Testgruppe 3209	Exception(G2_AD) Exception(G2) Exception(G2_AD)					
٢									
23									
9									
å									
	Total: 6	Exceptions in time	e zone management	Delete all exceptions					
	Authorised transponders Target state C Actual state (lock) - G1 C Actual state (lock) - G1	tual state (lock+transponde	rs) C Programming de	emand Print view	v				
	Apply Properties Add Remove	Exit	Help						
idle	le SANTABARBARA : COM3 TCP port:6000 Admin NUM								

#### Table

Shows all transponders authorised for the locking device in a detailed list.

#### Authorised transponders

You can use the individual radio buttons to filter the table.

#### Target state

Displays the target status.

#### Current status (...)

Displays the current programmed status.

#### Programming requirement

Displays all transponders with programming requirements.

LSM Business: Additional button "Exceptions in time zone management":

This where exceptions for the transponder are displayed in time zone management.

### Locking device properties: Actions

× 🖬	â a 20	D 02 3	🤞 ja a	) II	X M G	Q 6	?	
	ander Actions Mach Fo		/Data   State   Audit Tesil	1				
	inder Vieterie   Mech. re	atures   conliguration/	Data   State   Multi Mali	1				
Lock:	000000P		Door: Mai	n entrance				
Date	Туре	User	Description	Do				
2015.12.19 12:53	Last programmed	Admin						
2015.12.19 12:51	Delete Audit Trail	Admin						
2015.12.05.01:55	Créated	Aamin						

This table shows which actions (e.g. programming, authorization change, etc.) were carried out during locking. Different actions, such as "Last battery replacement", can also be added manually using the "Add" button.

# Locking device properties: Features

Locking System Management - [New Database - Lock properties]	8 <u>.000</u> 8	
Eile Database View Wizards Edit Reports Programming Network Options Window Help		- 8 ×
<u>ゴ × 購 品 @ 舒 @ 行 戸 ラ / は 4 ト り ※ り 分 Q 际</u>	?	
Name Door Transponder Actions Mech. Features Configuration/Data State Audit Trail		
Lock: 000089H Door: Main entrance		
Product: G2 Cylinder Serial number: 000089H		
- Attributes for cylinder		
Order data: Z4.30-35.ZK.FD.FH.WP.G2 Device class G2 Cylinder		
Outside dimensions 30 mm PHI 000089H		
Inside dimensions 30 mm Profile release 2		
ZK       Audit Trail / Time Zone Management         FD       Both sides free spinning         FH       Metal Door         WP       Outside		
Apply Properties Add Remove Exit Help		
idle DESKTOP-789HANE : COM(*) TCP port:6001	Admin	NUM

This tab shows the locking device's precise hardware options which are automatically entered during the initial programming.

Locking device properties: Configuration/Data

Locking System Management - [SmartXChange - Lock properties]	– 🗆 X
File Database View Wizards Edit Reports Programming Netw	ork Options Window Help
	I I I I I I I I I I I I I I I I I I I
Name Door Transponder Actions Mech. Features Configuration/Date	a   State   Audit Trail   Lock components
Lock: 00DS8G1	Door: Mifare
Target	Actual
Locking system ID 8676	Locking system ID 8676
Lock ID	Lock ID Firmware
130	130 3.3.42
Pulse length 5 Sec.	Pulse length 5 Sec.
Audit trail     Audit trail     Time zone management     Log unauthorised attempts     Gateway     Flip Flop     No acoustic battery warnings     Time switching     Permit exceptions in time zone management     No audible feedback	Audit trail     Time zone management     Log unauthorised attempts     Gateway     Flip Flop     No acoustic battery warnings     Time switching     Permit exceptions in time zone management
Last modified	Public holiday list valid until 30.01.28 17:26:31
Time zones: nonexistent	Time zones: 01.02.18 17:26:31
Public holiday lists: nonexistent	Public holiday lists: 01.02.18 17:26:31
Extended configuration	Attention! Changing this data can make it impossible to program the lock
Software reset The lock's actual state will be set to zero	
Apply Properties Add Remove	Exit Help
idle	SANTABARBARA : COM3 TCP port:6000 Admin NUM

This tab is divided into two sides:

- The left side shows the target status of the locking device i.e. the desired status configured in the LSM software.
- The right side shows the locking device's current status i.e. the status which was last programmed.

The following features can be enabled **depending on the locking device type**:

#### Access control

Option to log access events. *This function only works for components with an access control function.* 

*Clarify whether the use of this option is allowed in your own particular environment, e.g. with the Works Council or the Data Protection Officer.* 

#### **II** Time zone control

Option for control access for transponders in terms of time.

Logging unauthorised attempted access events

Rejected transponder bookings are retained in the locking device. This only applies to ID media which belong to the same locking system.

### Gateway

Option for using gateways. Only available with SmartRelay.

#### 👪 Flip-flop

When a transponder is enabled, the locking device engaged ready for use and remains engaged until a transponder activates it again.

### No audible battery warnings

If this function is enabled, there are no audible warnings indicating the battery status in components.

### **#** Time switch-over function

The locking device automatically changes status according to the settings under "Advanced configuration". *For access control versions only.* 

### No audible programming acknowledgement signals

The locking device does not acknowledge the process with audible signals when programming.

# Card interface

Links card interface with locking device.

# Extended configuration

Make advanced configuration settings, such as a time-controlled changeover of the locking device.

# Software reset

Button to re-set the current status of the LSM software. This process is timed and shown on the left-hand side.

# Locking device properties: Configuration/Data: DoorMonitoring SmartHandle

You can configure the DoorMonitoring functions in the SmartHandle using the "Monitoring configuration" button on the "Configuration/Data" tab on the locking device.

This function is only available if the SmartHandle features the DM function and this function was also directly added into the LSM software as "G2 SmartHandle DoorMonitoring".

Door open settings		Door open settings	
Sampling interval for DoorMonitoring sensors	off 💌 Sec.	Sampling interval for DoorMonitoring sensors	off 💌 Sec
"Door open too long" event after	off 🔄 Min.	"Door open too long" event after	off 💌 Min
Escape & Return	0 Sec.	Escape & Return	0 Sec
Events		Events	
Logging in the access list		Logging in the access list	
"Door open" events		☐ "Door open" events	
Lock bolt events		Lock bolt events	
Door handle sensor events		Door handle sensor events	
Transmission in the network		Transmission in the network	
"Door open" events		☐ "Door open" events	
Lock bolt events		Lock bolt events	
Door handle sensor events		Door handle sensor events	
Logging / transmission of alarms in the network		Logging / transmission of alarms in the network	
External sensors		External sensors	
Reverse "Door open" inputs		Reverse "Door open" inputs	
Reverse dead bolt input		Reverse dead bolt input	

Activate the required changes in the left hand "Target area".

**Escape & return:** Prolongs the time that the SmartHandle is engaged to open after the door has been detected as closed again.

# Locking device properties: Configuration/Data: DoorMonitoring locking cylinder

You can configure the DoorMonitoring functions in the locking device using the "Monitoring configuration" button on the "Configuration/Data" tab on the locking cylinder.

This function is only available if the locking cylinder features the DM function and this was also directly added into the LSM software as "G2 cylinder DoorMonitoring".
Abtastintervall für die Stulpschraube	aus	▼ Sek.	Abtastintervall für die Stulpschraube	aus	▼ Seł
"Tür zu lange offen" Event nach	aus	Min.	"Tür zu lange offen" Event nach	aus	➡ Min
Schloßriegel					
Tourigkeit des Schlosses	aus	•	Tourigkeit des Schlosses	aus	•
"Tür sicher verschlossen" Position des Riegels	aus	<b>v</b>	"Tür sicher verschlossen" Position des Riegels	aus	•
Ereignisse			Ereignisse		
Protokollierung in der Zutrittsliste			Protokollierung in der Zutrittsliste		
Tür offen" Ereignisse			Tür offen" Ereignisse		
Schlossriegel-Ereignisse			J_Schlossriegel-Ereignisse		
Weiterleitung im Netzwerk			Weiterleitung im Netzwerk		
"Tür offen" Ereignisse			Tür offen" Ereignisse		
Schlossriegel-Ereignisse			Schlossriegel-Ereignisse		
Protokollierung / Weiterleitung der /	Alarme im Netzwerk		Protokollierung / Weiterleitung der	r Alarme im Netzwerk	

Activate the required changes in the left hand "Target area".

## Locking device properties: Configuration/Data: SmartRelay (G1)

This tab is divided into two sides:

- The left side shows the target status of the locking device i.e. the desired status configured in the LSM software.
- The right side shows the locking device's current status i.e. the status which was last programmed.

The following features can be enabled **depending on the locking device type**:

#### Access control

Only possible in SREL.ZK and SREL.ADV versions. The 1,024 most recent transponder transactions are logged with the date and time.

#### Time zone control

Only possible in SREL.ZK and SREL.ADV versions. A time zone plan can be uploaded and the transponders are approved or blocked according to their time zone group.

# Overlay

Replacement transponders can overwrite their corresponding original transponders. The original transponder is blocked once the replacement transponder is used for the first time.

## Flip-flop

Pulse mode (default setting) is switched off and the pulse duration no longer plays a role. When flip flop mode is activated, SmartRelay changes its status from on to off or vice versa each time it is activated using a transponder. This mode is ideal for switching lights, machines and other systems on and off.

Where applicable, you should ensure that mains adapters and electric strikes are suitable for continuous current operation in such an installation.

## Repeater

The SmartRelay receives a transponder signal, which it amplifies and forwards. This function allows SmartRelay to be used to bridge longer radio transmission paths. The distance to the next SmartRelay can be up to 2 m.

## Time switch-over function

For SREL.ZK and SREL.ADV only. A time zone plan needs to be uploaded when the time switch-over is activated. This allows SmartRelay to remain unlocked during the indicated times (in Group 5). During the day, the door can be used freely while only a transponder will open the door at night.

You should ensure that mains adapters and electric strikes are suitable for continuous current operation in such an installation

#### OMRON

For SREL.ADV only Many access control and time-and-attendance systems feature serial interfaces to connect card readers. A SmartRelay can also be connected via these interfaces, thus also allowing you to use SimonsVoss transponders in third-party systems.

Select this option on both the SmartRelay and the cylinder if you wish the SmartRelay to transmit transponder data to a third-party system and a remote opening command to be sent from SmartRelay to a cylinder after clearance by the third-party system.

Set the type of external system under 'Interfaces'. Click on the "Extended configuration" button to do so.

# Pulse length

This is where you indicate the number of seconds for the duration of switch pulse. The value can be set at 0.1 to 25.5 seconds. If you enter 3 seconds, for example, an electric strike is released for 3 seconds before it locks again.

# Limited range

If you select this option, the reader range from the transponder to the SmartRelay is reduced from 1.5 m to about 0.4 m. This option can be used when several SmartRelays are in close proximity to one another and individual transponders are authorised for use on several SmartRelays, for example.

## Logging unauthorised attempted access events

For SREL.ZK and SREL.ADV only: Normally, only authorised transponder operations are logged. You need to select this option if you also wish to record attempts to open the door with non-authorised transponders.

## Number of extension modules

This where you indicate the number of external modules connected to the SmartRelay. These modules are connected to the terminals RS-485 C OM, RS-485 A and RS-485 B.

## Interface

For SREL.ADV only: You can enter the type of card reader here which the SmartRelay is to simulate for operation as a serial interface.

The following options are available:

- 👪 Wiegand, 33 bit
- 👪 Wiegand, 26 bit
- E Primion
- Siemens
- 👪 Kaba Benzing
- 👪 Gantner Legic
- lsgus

## No audible programming acknowledgement signals

For SREL.ADV only: You should check this field if you do not want audible programming confirmation signals to be emitted from a connected buzzer or beeper while you are programming SmartRelay.

External LED/external beeper

For SREL.ADV only: This indicates which external component group is connected. In flip flop mode, SmartRelay emits a permanent signal when switched on if there is an external LED; in the case of a beeper, an audible signal is only emitted when there is a change of status.

### Internal/external antennas

For SREL.ADV only

#### Auto-detection

If an external antenna is connected, this is the one which is used. SmartRelay switches off the internal antenna in such cases. If no external antenna is connected (standard case), SmartRelay functions with the internal antenna.

#### Both active

SmartRelay is able to use both antennas to verify transponder bookings.

#### Locking device properties: Configuration/Data: SmartRelay (G2)

This tab is divided into two sides:

- The left side shows the target status of the locking device i.e. the desired status configured in the LSM software.
- The right side shows the locking device's current status i.e. the status which was last programmed.

The following features can be enabled **depending on the locking device type**:

#### Pulse length

This where you indicate the number of seconds for the duration of switch pulse. The value can be set at 0.1 to 25.5 seconds. If you enter 3 seconds, for example, an electric strike is released for 3 seconds before it locks again.

## Access control

ZK and ADV possible. The most recent transponder transactions are logged with the date and time.

#### Time zone control

Only possible in ZK and ADV versions. A time zone plan can be uploaded and the transponders are approved or blocked according to their time zone group.

## Logging unauthorised attempted access events

For ZK and ADV only: Normally, only authorised transponder operations are logged. You need to select this option if you also wish to record attempts to open the door with non-authorised transponders.

# Gateway

SmartRelay can be used as a gateway.

## Flip-flop

Pulse mode (default setting) is switched off and the pulse duration no longer plays a role. When flip-flop mode is activated, SmartRelay changes its status from on to off or vice versa each time it is activated using a transponder. This mode is ideal for switching lights, machines and other systems on and off.

Where applicable, you should ensure that mains adapters and electric strikes are suitable for continuous current operation in such an installation.

#### Internal antenna always on

Even if an external antenna is connected, the internal antenna is still used at the same time.

#### Close range mode (for internal antennas only)

Close range mode is activated.

#### Time switch-over function

For ZK and ADV only. A time zone plan needs to be uploaded when the time switch-over is activated. This allows SmartRelay to remain unlocked during the indicated times (in Group 5). During the day, the door can be used freely while only a transponder will open the door at night.

You should ensure that mains adapters and electric strikes are suitable for continuous current operation in such an installation

#### Permit exceptions in time zone management

Exceptions are permitted in time zone management if this checkbox is enabled.

## Card interface

This option is enabled for all G2 SmartRelays as standard. The LSM first adds a data record for an active locking device and checks whether the locking device has an interface during programming. If no card interface is detected, LSM automatically disables the checkbox. You no longer need to indicate whether you have an active or hybrid SmartRelay G2 for LSM 3.3 or higher.



## IMPORTANT

If you change the card interface setting manually, automatic detection will no longer function and warning messages will be emitted. Some settings can be specified using the "Extended configuration" button:

# Interface

You can enter the type of card reader here which the SmartRelay is to simulate for operation as a serial interface.

The following options are available:

- 👪 Wiegand, 33 bit
- 👪 Wiegand, 26 bit
- Primion
- Siemens
- 🚦 Kaba Benzing
- Gantner Legic
- Isgus

#### External LED/external beeper

For SREL.ADV only: This indicates which external component group is connected. In flip-flop mode, SmartRelay emits a permanent signal when switched on if there is an external LED; if there is a beeper, an audible signal is only emitted when there is a change of status.

#### Invert outputs

You can use these settings to invert the relay output.

# Locking device properties: Status

Locking System Management - [New Database - Lock properties]	1 <u></u> 3	
File Database View Wizards Edit Reports Programming Network Options Window Help	1	- 8 ×
조 X 📑 육 @ 유 @ 유 한 주 < H 4 > N × N 47 Q F	?	
Name Door Transponder Actions Mech. Features Configuration/Data State Audit Trail		
Lock: 000089H Door: Main entrance		
State during last read-out:		
Battery status OK		
Emergency release		
C Deactivated		
Engaged		
☐ Storage mode		
Apply Properties Add Remove Exit Help		
dle DESKTOP-789HANE : COM(*) TCP port:6001	Admin	NUM

The last uploaded status of the locking device is displayed and is updated each time the locking device is read.

## Locking device properties: Access list

- 1	ansponder   Actions   Mech. Features	Comiguration/Data   State / C			
Lock:	000089H	Door:	Main entrance		
Date	Owner	Serial number	TID	Locking component	
Print vie	w	Delete Audit Trail	Г	Audit Trail for door	

This tab can display the latest version of the access list. *The locking device must support the "Access control" function, which must be enabled in the locking device properties.* 

This is how you read the access list:

- 1. Read locking device using the *Programming/Read locking device* menu bar.
- 2. Click on the "Access list" button to launch the read process.
  - ➡ The access system is automatically displayed and saved. It can now be displayed in the locking list properties in the Access list tab at any time.

### Locking device properties: DoorMonitoring status

The current status of the locking device can be displayed in the "DoorMonitoring status" tab in real time. A configured WaveNet is required for this function.

This tab can only be selected if the locking device features the DM function and this was also directly added into the LSM software as "G2 DoorMonitoring/SmartHandle cylinder". The appearance may vary.

Locking System Management - [New Data File Database View Wizards Edit	abase - Lock properties] Reports Programming	Network (	Options Windo	w Help			8 <u>.22</u>	□ ×
z 🗙 📑 🕏 🎯 🐯	💁 🔐 📑 🥠	•	• •	N N	N G	Q <b>F</b>	?	
Name   Door   Transponder   Actions   Mech. I	Features Configuration/Data	State Au	dit Trail Door Mo	nitoring State				
1012C7D		Deer	DM TNA					
Current door status:		Last update:	DM_114					
Lock bolt position:		Last error:			Reset			
		<u>.</u>						
Apply Properties	Add Remove		Exit	<u>H</u> elp				
idle			DESK	TOP-789HANE	: COM(*) TCP	port:6001	Admin	



# IMPORTANT

If you wish to monitor several locking devices at the same time, you can also use SmartSurveil to display locking devices and their respective door status in a table where they can be clearly seen.

4.1.5.3 Edit/Properties: Transponders

Show and edit properties for the transponder currently highlighted.

Double-click on a transponder to open its properties directly.

A 📖 🙀						NV N	1 4			
		? \$ 0? -?				~	+ -3	~ 4	•	
Owner   Doors   Act	ions   Configurati	ion   Mech. Features   Pers	sonal audit trail	1						
erial number	040L922	M	Firmware	3.2.0	0			Deactivate		
wner	Peterman, Jenr	nifer 💽		<i>.</i>				Activate		
		ignment of person/transpon	der				Tran	sponder issuand	ce	
escription	G2 Transponde	er 💌						Multiple Copy	1	
Assigned transponder g	roups (target):									
Locking system	Level	Transponder group	TID G1	Time group	1	TID G2	G2 Time gr	oup		SID Ext
Xffice_Munich	Standard	product management	16			3202				15862638
Assigned transponder g	roups (actual):						Tra	insponder group		
.ocking system	Level	Transponder group	TID G1	Time group		TID G2	G2 Time gr	oup		SID Ext
thice_Munich	Standard	product management	16			3202	57			15862638
Number of resets	0	Softwa	are reset	The transpo	onder's actual	state will be set	to zero.			

#### Transponder properties: Name

## Serial number

Transponder serial number. The "..." button shows the person's properties. The G2 transponder "internal serial numbers" (PHI number*Physical Hardware Identifier; embossed on the product*) are automatically applied when they are programmed.

## Holder

The person that the transponder is assigned to. The "M" button shows the transponder in the matrix.

## 👪 Туре

Type of transponder.

## Description

Blank field to describe the transponder.

#### Assigned transponder groups: Target state

Target status of the transponder group to which the transponder belongs.

#### Transponder group

You can use this button assign the transponder to another transponder group.

#### Assigned transponder groups: Current status

Current status (last programming) of the transponder groups to which the transponder belongs.

# Software reset

Button to re-set the current status of the LSM software. This process is timed and shown on the left-hand side.



# IMPORTANT

Only use this function if you are sure where the programmed components are. This action can be used if a transponder is defective. A correctly programmed, functional transponder which has only be reset in the software may still be authorised to operate locking devices. This poses a high security risk!

#### 🚦 Disable

Button to disable a transponder.

#### Activate

Button to activate a transponder.

#### Issuing of transponders

Generates a form with signature for handover. The form also contains a list of all authorised doors.

#### Make multiple copies

Generates as many copies of the transponder with the same properties as required.

# Transponder properties: Holder

Locking System Manage	ement - [New Database - Transponder pro	operties]				
File Database View	Wizards Edit Reports Programmir	ng <u>N</u> etwork <u>O</u> ptions <u>W</u> i	ndow <u>H</u> elp			
× 🖬 🗰	💁 🔐 🧐 🔐	🤸 🖌 🖌	PI PX PI 4	7 Q F	¢?	
me Owner Doors Acti	ions Configuration Mech. Features Perso	onal audit trail				
Transponder: 04	40L922					
First name	Jennifer					
Last name	Peterman					
Title						
Address						
<b>T</b> 1 1	000 12245	-   🔻				
E Mail	iennifer neteman@simons-voss.com	-	<i>0</i> :			
	P-00003	<b>-</b> 1				
User name Department		-] -				
Location/Building		- 1				
Entry date:	04/01/2011 - I 🔽 not relevant					
Culture data:	05/01/201	Toppandan				
Quitting date.		Serial number	Туре			
Date of birth		040L922	G2 Transponder			
Cost Centre	4711					
Note	1					
	1	1				
Apply	roperties Add Remo	ove <b>Exit</b>	Help			
	]			TCP port:6001	Admin	NUM

You can enter all information on the transponder's holder in the "Holder" tab. The "Transponder" table indicates how many transponders and which ones are assigned to the user. You can use the "..." to add a user photo. *We recommend using JPEG images no larger than 500 kB.* 

#### Transponder properties: Doors

	ockin	ng System Managemer	nt - [SmartXChange - Tra	nsponder properties]				- 0	×
F	ile	Database View Wiz	zards Edit Reports	Programming Netwo	ork Options Windo	w Help			- 8 ×
2	<u> </u>		4 6? 9? 6	? - ?			7 Q F	2	
	Na	me Owner Doors 4	Actions Configuration M	ech. Features Personal	audit trail				
$\triangle$					<b>• • • •</b>				_
		Transponder:	01D-0100000409D5AE8	i	Owner: Karte I	,,		Search	
		Serial number	Door	Locking system	Area [System area]	Transponder group	Lock ID	Access Exception(G2_AD)	-
		00DS8G1	Mifare	Beispielanlage LSM	[System area]	Testgruppe	130	Exception(G2)	
00									
0									
									_
23									
									_
å									
		Total: 2					. 1	Selected: 0	>
		A theread door		Hemove all exception	S Exception	ns in time zone managemen	r.	000000.0	
		<ul> <li>Target state</li> </ul>	C Target state (exc	ceptions) C Act	ual state (lock+transpond	ders) O Progra	mming demand	Print view	
		Apply	Properties A	dd Remove	Exit	Help			
idle						SANTABARBARA	COM3 TCP po	rt:6000 Admin NU	IM /

This tab gives you an overview of the selected transponder's authorisations for doors. The devices are all displayed in detail in a table.

## Table

Shows all the doors that the transponder is authorised to use in a detailed list.

#### Authorised doors

You can use the individual radio buttons to sort and filter the table.

# Transponder properties: Actions

Transponder:	040L922		Holder: Peten	nan, Jennifer		
Date	Туре	User	Description	Do		
2016.01.04 11:00 2016.01.03 12:54	Last programmed Created	Admin Admin				

This table shows which actions, such as programming and authorisation changes, have been implemented using the selected transponder. Certain actions, such as "Scheduled return", can also be added manually using the "Add" button.

# Transponder properties: Configuration

E Lo	king System Management - [SmartXChange - Transponder properties] -	×
📑 Fil	Database View Wizards Edit Reports Programming Network Options Window Help	5 ×
<b>∠</b>	X 🛱 🛱 🚳 🔐 🧐 🛱 📮 🗲 K 4 ▸ K 🗵 🐼 4 万 4 万	
	Name Owner Doors Actions Configuration Mech. Features Personal audit trail	
$\triangle$	Transponder: 02U2EP8 Owner: Hubert	
	Locking system Beispielanlage LSM 3 x	
	Target state     Actual state       Image: Long opening     Image: Long opening	
00	No acoustic opening signal     No acoustic opening signal       Personal audit trail     Personal audit trail	
0	Image: Dynamic time window     Dynamic time window       Image: Dynamic time window     Image: Dynamic time window       Image: Dynamic time time window     Image: Dynamic time time time time time time time time	
	C until a particular time of (next) day C until a particular time of (next) day C Number of hours since last complete hour of booking C Number of hours since last complete hour of booking	
23		
	Validation date Expiry date Expiry date	
	Image: From now     Image: Without expiry date	
ě		
	Time zone group	
	G1 no G1 O Profile release	
	G2 no G2 0 3	
	TIDs to deactivate	
	Apply     Properties     Add     Remove     Exit     Help	
idle	SANTABARBARA : COM3 TCP port:6000 Admin NUM	_ //

This tab is divided into two sides:

- The left side shows the transponder's target status i.e. the required status configured in the LSM software.
- The right side shows the transponder's current status, i.e. the status which was last programmed.

#### Locking system

Displays the transponder's currently assigned locking system.

## Long opening

This allows the locking device to remain engaged to open for longer. The locking device impulse length is doubled. *Example: People with disability possibly require the door to be open longer.* 

#### No audible opening signal

The locking device responds to the transponder without emitting an audible signal. *Example of use: assisted living accommodation. The duty nurse can enter the room at night without making a noise.* 

## Physical access list

Saves all access events on the transponder.

### Do not change time window on the gateway

There is no time limit on the validity period for this G2 transponder booking at the gateway.

#### Until a specific time on the next day

There is a time limit on the validity period for this G2 transponder booking at the gateway. Enter a time.

## Number of hours from the last full hour of the booking

The validity of this G2 transponder booking at the gateway is extended by the specified number of hours. Enter the number of hours.

## Activation date

Date and time from which the transponder is to be valid.

#### Expiry date

Date and time from which the transponder is to be no longer valid.

## Time zone group

You can assign the transponder to a previously assigned time zone group.

## TIDs to deactivate

You can save to the transponder ID for other transponders which have been deactivated. As soon as the transponder registers on a locking device, the deactivations will come into effect on the locking device in question.

# Transponder properties: Features

Lo	ocking System Management	- [New Database - Transponder pro	operties]			1 <u>00</u> 1	
E E	ile Data <u>b</u> ase <u>V</u> iew Wi <u>z</u> a	rds <u>E</u> dit Repor <u>t</u> s <u>P</u> rogrammir	ng <u>N</u> etwork <u>O</u> pti	ons <u>W</u> indow <u>H</u> elp	W. Touris		_ & ×
7,	🗙 📑 醇 🚳	. 🔐 🧐 🔐 📑	🤌 🛯 🖣	► ► ►		λ 🗛 ?	
Name	Owner Doors Actions C	Configuration Mech. Features Perso	nal audit trail				
						17	
2	Transponder: 040L922		Holder: P	eterman, Jennifer			
	Data						
	Device class	G2 Transponder					
	PHI	040L922					
	-						
	Apply Propertie	es Add Remo	ve <u>E</u> xit	Help			
idle				DESKTOP-789HA	NE : COM(*) TCP por	t:6001 Admin	NUM

Check the transponder's exact specifications.

# Transponder properties: Physical access list

Transponder:	040L922	Owner: Peterman, Jer	nifer		
Date	Door	Serial number	LID	59 	 
Print view	v Delete person	al audit trail			

This tab can display the latest version of the physical access list. *The* "*Physical access list*" *function must be enabled.* 

How to read the physical access list:

- 1. Read transponder using the *Programming/Read transponder* menu bar.
- 2. Click on the "Physical access list" button to launch the read process.
  - → The physical access list is automatically displayed and saved. It can now be displayed in the transponder properties in the Access list tab at any time.

4.1.5.4 Edit/New locking system

This is where you can add a new locking system within the project.

#### 4.1.5.5 Edit/New locking device

w lock		>
Locking system	Beispielanlage LSM 3.x	•
Area	[System area]	
Lock type	G2 Cylinder	Configuration
Select door	<u>▼</u>	
Serial number	Display doors without Locks      L-00003 Auto	7
✓ Insert door		
New door	Ausgang	_
Room number	Floor	
Location	no 💌 Building	no 💌
Assignment to global levels		
Locking system	Area	el
, Global level	Green	• Add
Locking system	Obergreifend grün	<ul> <li>Remove</li> </ul>
Area	[System area]	
Save & next		Exit

Use this option to add a new locking device manually.

If several locking systems and common locking levels have already been created, the new locking device can be assigned to them directly. Dropdown lists provide corresponding options for this purpose.

 Optionally select a locking system and area to assign the locking device correctly immediately. Locking systems and areas must be defined beforehand. It is possible to change these settings at a later stage at any time.

- You can use the "Add door" button to create a new door. A door can contain a number of locking devices.
- You can use the "Save & next" button to add a new locking device to the locking plan. Select "Finish" to return to the matrix or add another door.

Different locking devices can be managed in the LSM software, depending on the hardware used. Select the type of locking device that you wish to add from Locking device type in the drop-down menu.

#### 4.1.5.6 Edit/New transponder

Use this option to add a new transponder manually.

If several locking systems and transponder groups have already been created, the new transponder can be assigned to them directly. Drop-down lists provide corresponding options for this purpose.

- Optionally select a locking system and transponder group to assign the transponder correctly immediately. Locking systems and transponder groups must be defined beforehand. It is possible to change these settings at any time.
- You can use the "Configuration" button to make advanced settings such as the transponder validity.
- You can use the "Save & next" button to add the transponder to the locking plan. Select "Finish" to return to the matrix or add another transponder.

Ensure that each ID medium is basically marked as a transponder in the LSM software. Different ID media can be managed in the LSM software, depending on the hardware used:

G1 biometrics	Biometric transponder
G1 biometric reader user	Biometric reader user in G1 standard
G1 card	Card in G1 standard
G1 SmartClip	SmartClip in G1 standard
G1 transponder	Transponder in G1 standard
G2 card	Card in G2 standard
G2 PIN code user	User of a PIN code terminal
G2 transponder	Transponder in G2 standard
Undefined	Not yet determined G1 transponder



# IMPORTANT

Transponder must never be assigned to a locking system and a common level at the same time.

# 4.1.5.7 Edit/Transponder group

* 🖬 🔒 🕘 🎰	On an in f			N D	× »	19	Q	F6	?	
Locking system	Office_Munich	-	Transpon	der						
			Owner			Serial numbe	r Ty	pe		
Transponder group	product management		Peterma	n, Jennifer		040L922	G2	Transpon	der	
	no	<b>▼</b>	1							
G2 time zone group	no	•	-							
Description			-							
Description			-							
Stock G1	8		-							
	<i></i>									
			-							
										_
- Management			Transp	onder allocat	ion —					4
Authorisations	Stock G1			Automa	atic			Manua	al (G1)	
Edit New			1	400	u 1		-vit	i f	Help	1
				DPP			-	,	Tob	

This menu displays the transponder groups already added. You can use the "Next dataset" and "Previous dataset" buttons on the menu ribbon to switch between individual transponder groups. You can use the "New" button to add more transponders.

## Locking system

Selects the locking system added.

## Transponder group

The transponder group name.

# Global group (Business)

Transponder group which occupies a position higher up in the hierarchy.

#### Time zone group

Establishes the G1 time group for the transponder group.

#### **II** Time zone group G2

Establishes the G2 time group for the transponder group.

#### Description

Blank field to describe the transponder group.

#### Gl reserve

Total number of transponder IDs available in the transponder group.

#### Authorisations

Option of issuing the group authorisations.

#### Reserve (G1)

Option to manage G1 transponder IDs.

#### Automatic

Option to automatically assign a free transponder to the transponder group.

## Manual (G1)

Option to assign a specific transponder to a specific transponder ID manually.

#### 4.1.5.8 Edit/Person

This menu displays the persons already added. You can use the "Next dataset" and "Previous dataset" buttons on the menu ribbon to switch between individual persons.

The menu is the same as the "Holder" tab under *Edit/Properties: Transponder.* 

You can also use the "New" button to add new persons.

### 4.1.5.9 Edit/Area

Use this menu to display the individual transponder areas. You can use the "Next dataset" and "Previous dataset" buttons on the menu ribbon to switch between individual transponder groups.

You can also use the "New" button to add new areas.

# 4.1.5.10 Edit/Door

This menu displays the doors already added. You can use the "Next dataset" and "Previous dataset" buttons on the menu ribbon to switch between individual doors.

The menu is the same as the "Door" tab under *Edit/Properties: Locking device*.

You can also use the "New" button to add new doors.

## 4.1.5.11 Edit/Building

You can use this menu to add a new building or edit an existing building to the locking system. Buildings can only be created if their location has already been added.

#### 4.1.5.12 Edit/Location

You can use this menu to add a new location or edit an existing location in the locking system.

#### 4.1.5.13 Edit/Public holiday list

This list applies universally to the project. This is where public holidays can be selected according to geographical location or where new ones can be created.

## 4.1.5.14 Edit/Public holiday

This is where individual public holidays can be created. This is where you can determine a new "public holiday" or a "holiday period". *Newly created public holidays must be assigned to a public holiday list in the holidays management.* 

4.1.5.15 Edit/Time zone plan



You can create time zone plans in this section.

#### Name

Suitable, unique name for the time zone plan.

#### Description

Apt description of the time zone plan.

# Public holiday list

Select a relevant geographical location.

## Display names of groups for the locking system

Selects the locking system for which the time group names changed manually are displayed.

## Time groups table

Up to 100 time groups may be defined for each time zone plan. First select a group and then edit the weekly program.

## **#** Small tables on right at top

If the time zone plan has already been assigned to an area, this is displayed in the two small tables.



# IMPORTANT

Next, always create a time zone plan first and later assign it to an area *or an individual locking device*. You can do this at *Edit/Area*, for example.

#### Weekly schedule

- Fields filled in blue indicate an authorisation at this time.
- You can click on fields individually or select by holding down the mouse button to make changes.

#### Edit

This button needs to be enabled to edit the time zone plan. Changes can be saved by pressing the "Apply" button.

#### New

The "New" button creates a new, empty time zone plan.

#### 4.1.5.16 Edit/Time group

The time group can display all the time groups issued in the time zone plan. This view is especially suitable for giving a complete overview of the locking system, time group, transponder group and transponders.

You can use the "Assigned transponders" button to print out an overview.

#### 4.1.5.17 Edit/Local time zone

Enter your local time zone in this window if you manage locations in different time zones. The "Import from registration" button allows you to select from standard world time zones.

If a locking device has been programmed with a local time zone, this changes automatically between daylight saving time and standard time.

#### 4.1.5.18 Edit/User (Business)

The first log-on to LSM automatically becomes the administrator ("Admin"). This role has all rights.

Different users can be added in LSM Business. Several users can thus manage a database or a locking system.

New users and their rights can be displayed under *Edit/Users*. You can use the "Previous dataset" and "Next dataset" button to switch between different users.

"User account is blocked"

If this checkbox is enabled, the user is currently blocked.

"User must change password at next log-on"

If this checkbox is enabled, the user needs to enter a new password when they next log on. Users can also enter a new password under *File/ Change password* at any time.

"User groups" button

This is where the user can be assigned to one or several existing user groups. The user group determines what particular rights the user has.

Edit" button

This button is used to change the user data.

"New" button

This button can be used to add a new user.

#### 4.1.5.19 Edit/User group

Users are added to user groups. This is how rights are distributed to users. The first person to log on to LSM Business is the "Admin" user, who is assigned to the "Administrator" user group with all rights.

New user groups and their rights can be added or restricted under *Edit/User group*. You can use the "Previous dataset" and "Next dataset" button to switch between different user groups.

Group name

Name of the group.

Description

Description of the group.

Users

Users which have already been assigned to the user group. You can use the "Edit" button to add existing users to the user group. You can also add them using *Edit/Users*.

Write access

Data can be changed and programming implemented if this checkbox is enabled. You can only read or display data if the checkbox is not enabled.

🖬 Role

This is where user group rights can be issued. *The distribution of roles are described in more detail in the following section on Roles & rights* [+ 99].

Edit" button

This button allows you to make changes to "Rights" or "Group name".

"New" button

Creates a new user group.

# Roles & rights

Role	Description				
Locking system man- agement	Manage authorisations in the matrix.				
Programming/reading	Allow communication between transponders and				
transponders	LSM using a programming device.				
Programme/read lock-	Allow communication between transponders and				
ing devices	LSM using a programming device.				
Edit transponders and groups	Edit transponders and transponder groups.				
Edit locking devices and	Editing locking devices and areas				
areas	בטונוו וא נטכאוו וא טפעוכפג מו וט מו פמג.				
Configure network	Create and edit network.				
Managanatwork	Carry out tasks such as collective tasks or event				
IVIAI IAGE HELWOIK	manager via configured networks.				
Access lists administra-	Basic right to issue an authorisation to read ac-				
tion	cess and physical access lists to a user group.				
Manage access lists	Allow access and physical access lists.				
HR management	Editing persons.				
Use LSM Mobile	Allow export to or import from.				
time management	Create and edit public holiday lists, time zones				
linemanagement	and time groups.				
Print reports	Allow reports and labels to be printed.				
Read log	Access to the "View/Log" menu.				
Emergency opening	Allow emergency opening to be made.				

## 4.1.6 Reports

You need the LSM Report module to display reports easily in LSM Basic. LSM Business provides additional types of reports.

Each report type offers the following basic selection options:

Reports					×	
Lock Time : Locki	Netwo zone plans ng system	ork Misc Transponder Building stru	ellaneous r group   cture	Area Transponder HR structure	Time group Users Door	
۲ ا	.ocking system Beispielanlage L	SM 3.x			<b>_</b>	
3	<ul> <li>Locks</li> <li>Transpond</li> <li>Areas</li> <li>Transpond</li> <li>Statistics</li> <li>Programm</li> <li>Programm</li> <li>Full progra</li> <li>Time grou</li> <li>User definition</li> </ul>	der der groups ing demand for loo ing demand for tra imming demand fo ps ed	cks ansponders or transponde	rs (all records)		
4	4 User defined reports Save					
5	Prir	nt view		Abbrechen		

- 1. Type of report, such as a SimonsVoss component, building or transponder group.
- 2. First limitation which should be reported.
- 3. Targeted limitation on what exactly should be reported.
- 4. Option of selecting a user-defined report and then saving it. *Custom-ised, user-defined reports can be ordered from SimonsVoss Technolo-gies GmbH.*
- 5. The "Display" button shows the report subject to the pre-set criteria.

The page headers and footers for reports can be customised under Options/Reports.

Displayed reports can be printed out directly or exported in different formats.

- 4.1.6.1 Reports/Locking system
- 4.1.6.2 Reports/Area
- 4.1.6.3 Reports/Transponder group
- 4.1.6.4 Reports/Door
- 4.1.6.5 Reports/Locking device
- 4.1.6.6 Reports/Transponder
- 4.1.6.7 Reports/Time group
- 4.1.6.8 Reports/Time zone plan
- 4.1.6.9 Reports/Network
- 4.1.6.10 Reports/Personnel structure
- 4.1.6.11 Reports/Building structure
- 4.1.6.12 Reports/User (Business)
- 4.1.6.13 Reports/Miscellaneous
- 4.1.6.14 Reports/Print locking device labels

A list of all locking devices is displayed first. You can select all locking devices or just individual ones.

You can use the "OK" button to select different label types for printing.

4.1.6.15 Reports/Print transponder labels

A list of all transponders is displayed first. You can select all transponders or just individual ones.

You can use the "OK" button to select different label types for printing.

4.1.6.16 Reports/Manage warnings (Business)

Available in LSM Business with enabled online module only.

The warning function provides help with working with LSM Business on a daily basis. You can configure the system to notify you of certain situations (e.g. return of transponder pending) or other events (locking device battery warning). Warnings are displayed in the warning monitor when LSM is launched. The warning monitor opens every 15 minutes.

ame	Type	Display in advance	Description	New
Leaving date	Leaving date imminent	1 T. 0 St. 0 Min.		INCW
Battery warning, lock	Battery warning, lock	1 T. 0 St. 0 Min.		Edit
				Delete

### Table

Overview of the added warnings.

New

Create a new warning.

Edit

You can edit the settings after selecting the warning that you require.

# Delete

You can delete the warning after selecting the one that you require.

You can use the "New" button to add a new warning:

Warning attributes				×
Name:		Leaving o	late	
Туре:		Leaving	date imminent	v
Attributes:		An emplo	yee's leaving date is in	nminent
Display in advance:		24	Hours	•
Description:				
People	er on day of			
return				
Managa	cleaning, 2 cleaning, 3			
Manage	Hansen, D Miller, Jame	aniel es		
	Peterman,	Jennifer		
ОК				Cancel

## Name

Name of the warning.

# \rm Туре

Type of warning, such as locking device battery warning.

# Properties

Are established based on the warning type.

Advanced notice

Time frame between the warning and the cause of the warning coming into effect.

#### Description

Blank field to describe the warning.

#### Block transponder on day of return

Authorisations for locking devices are withdrawn from the transponders in the locking plan on the day of return -> Programming requirement.

#### Enabled

The warning is used if enabled.

#### Manage

Selects the objects to be monitored.

#### Table

Displays the selected components.

You can select the following warnings:

- Leaving date reached
- Battery warning for locking device
- Battery warning for transponders
- Export to handheld PDA
- Scheduled battery replacement
- **Return of transponder pending**
- Transponder expiry date

#### 4.1.6.17 Reports/Warning monitor (Business)

Available in LSM Business with enabled online module only.

The warning monitor displays warnings which have been issued and are activated. The warning monitor starts up automatically after log-on and displays all accumulated warnings. If you select status display, you can also view already accepted or accumulated warnings. Double-click on the entry to open the properties of the respective object.

You can launch the warning monitor via *Reports/Warning monitor*.

rent warnings				
amings:				
lame	Туре	Date	Subject	Accept
elect status	Г	Don't remind again during this sessio	n	
<ul> <li>Activated</li> <li>Evolved</li> </ul>				
Accepted				
Completed				Fxit

#### Table

Overview of accumulated warnings.

#### Accept

You can accept individual warnings and they are then hidden.

# Enabled

Only current warnings are shown.

#### Expired

Expired warnings are those warnings for which the pre-set time interval has already expired.

# Accepted

This displays warnings that have already been accepted.

#### Processed

Processed warnings are those warnings which a follow-up task has dealt with, such as "Blocking of transponders".

# 4.1.7 Programming

4.1.7.1 Programming/Transponder

You can only select this function if you have selected a transponder in the matrix. The transponder which was selected in the matrix is displayed directly in the drop-down menu. Click on the "Programming" button to launch the programming process for the transponder selected in the drop-down list.

If you would like to programme a number of transponders one after the other, you can start with the first transponder and select the "Jump to the next transponder after programming" option.

4.1.7.2 Programming/Locking device

You can only select this function if you have selected a locking device in the matrix. The locking device which was selected in the matrix is displayed directly in the drop-down menu. Click on the "Programming" button to launch the programming process for the locking device selected in the drop-down list.

Select the programming device which you wish to use for programming in the "Programming device" field.

4.1.7.3 Programming/Read highlighted locking device/Set clock

Read the locking device selected in the matrix to set the clock time or read the access list.

4.1.7.4 Programming/Read locking device

You can use this command to read a locking device instantly using the standard SMARTCD.G2 programming device.



# IMPORTANT

Only one locking device may be near the programming device at any time.

4.1.7.5 Programming/Read MIFARE locking device

You can use this command to read a passive MIFARE locking device instantly using the passive SMARTCD.MP programming device.



# IMPORTANT

Hold the electronics side of the locking device (e.g. where the black ring between the profile cylinder housing and thumb-turn is located on the locking cylinder) directly against the antenna symbol on the programming device!

# 4.1.7.6 Programming/Read transponder

You can use this command to read a transponder instantly using the standard SMARTCD.G2 programming device. Observe the instructions in the LSM software.

# 4.1.7.7 Programming/Read G1 card

You use this command to read a G1 card instantly using the CD.MIFARE (*no longer available*). Observe the instructions in the LSM software.

# 4.1.7.8 Programming/Read G2 card

You can use this command to read a G2 card instantly using the standard SMARTCD.HF programming device. Observe the instructions in the LSM software.

In the case of hybrid components, the SMARTCD.G2 also needs to be connected to the computer in addition to the SMARTCD.HF.

4.1.7.9 Programming/Special functions

## Programming/Special functions/Read Compact Reader

Reads a Compact Reader.

## Programming/Special functions/Activation transponder

You can use this function to create an activation transponder. You can use an activation transponder to reactivate deactivated locking devices. You also require an authorised transponder to open the locking device.

# Programming/Special functions/G2 activation card

You can use this function to create a G2 activation card. You can use a G2 activation card to reactivate deactivated locking devices. You also require an authorised G2 card to open the locking device.

## Programming/Special functions/G2 battery replacement transponder

If a locking device has changed to freeze mode due to a critical battery level, the locking device can only be reactivated with the aid of a battery replacement transponder. You also require an authorised transponder to open the locking device.

#### Programming/Special functions/G2 battery replacement card

A locking device can only be reactivated with the aid of a G2 battery replacement card after the locking device has changed to freeze mode due to a critical battery level. You also require an authorised G2 card to open the locking device.

4.1.7.10 Programming/Implement emergency opening

It is possible to open a locking device using the LSM software and the corresponding programming device. Note that you need to enter the locking system password to do so.

4.1.7.11 Programming/Test SmartCD active

You can use this function to test whether a connected SMARTCD.G2 functions correctly.

4.1.7.12 Programming/Test SmartCD Mifare

You can use this function to test whether a connected SMARTCD.MP or SMARTCD.HF functions correctly. Ensure that only one of the passive programming devices is connected when testing.

4.1.7.13 Programming/LSM Mobile

It is possible to export programming tasks from the LSM software if you have a Microsoft Windows-based laptop, netbook or PDA. You can thus programme several SimonsVoss components at the same time with mobile devices, for example.

## Programming/LSM Mobile/Export to LSM Mobile

Exports the programming commands from a locking system.

#### Programming/LSM Mobile/Import from LSM Mobile

Exports the completed programming tasks back into the LSM software.

#### Programming/LSM Mobile/Exported tasks

Shows the current programming exports to LSM Mobile.
#### 4.1.7.14 Programming/Virtual network

You will find more detailed information about programming via virtual networks in the WaveNet manual.

#### Programming/Virtual network/Export to VN network

Programming/Virtual network/Import – synchronisation

Programming/Virtual network/Reset VN task

Programming/Virtual network/Exported VN tasks

#### 4.1.8 Options

4.1.8.1 Options / data protection compliant working according to GDPR

Since 25 May 2018, the General Data Protection Regulation has been valid throughout Europe. It regulates the handling of personal data in order to ensure their protection and at the same time their free movement within the European internal market. First of all, access to the database via the graphical user interface is only possible with a password and corresponding user rights.

## CAUTION

#### Loss of locking system password

The locking system password is a central component of the security concept. The loss of the locking system password restricts the operation of the locking system and is a security risk.

- 1. Keep the locking system password safe (e.g. in a safe)!
- 2. Make the locking system password visible to authorised persons at all times!

In addition, no "special categories" of personal data pursuant to Art. 9 GDPR are stored within the LSM software. The mandatory fields used for a person are used exclusively for the unique assignment of identification media within the locking plan. The obligatory data are only required by the system for the duration of the occupation of an identification medium (e.g. company affiliation). The duration of data storage in logs can be changed at will by the locking system administrator himself (see *Options/Logging* [ $\bullet$  110]).

#### Also see

◆ Data protection in System 3060 [▶ 10]

#### 4.1.8.2 Options/Print Matrix

You can only print the matrix if the matrix view is currently being displayed.

#### 4.1.8.3 Options/Logging

This is where you can indicate which log entries are saved and for what length of time. All log events are usually stored for 180 days. You can set time periods between 7 and 670 days.

#### 4.1.8.4 Options/Automatic numbering

New components are numbered sequentially by default. This option field allows you to define the syntax for different components.

#### 4.1.8.5 Options/Advanced

Ensure that you always have a fully functional, up-to-date data backup before optimising the database.

misation	- Import
Check for optimisation potential	System 3060 locking plan file
Optimise rights	Personnel data from LDAP
Optimise table structure	Personnel data from CSV file
Asynchronous loading	Door data from CSV file
cellaneous	Locking plan from CSV file
Priority for unused TIDs when increasing stock	Export
Show building structure	Export matrix
Optimise issuing of lock IDs for card systems	Administration
Immediately delete the LSM Mobile tasks from the database, that have been overwritten.	Divide up locking system
Switch off access logging during initial programming	Select exceptions in time zone management
Separate reset transponder from holder	Time-controlled authorisations
Do not change serial number when you reset	View in the matrix
	Staff photos
	✓ Store photos in database
	Directory for photos:

#### Options/Advanced/Check need for optimisation

Users who have been using the LSM software for some time may ask themselves whether the database application is performing correctly. Restructuring may cause more data (authorisation crosses) to overburden the database. For example, it is possible to give authorisation to a transponder group and an explicit individual authorisation to a person in this group. This just means that the person may have two existing authorisations for the same door which are separate from another. It is not just confusing but also unnecessary. Click on the "Check need for optimisation" button to check whether the locking system needs to be optimised. Then follow the instructions in the LSM software.

#### Options/Advanced/Optimise authorisations

Implement this command if the check advises that you need to optimise.

Click on the "Optimise authorisations" button to check whether authorisations needs to be optimised. Then follow the instructions in the LSM software.

#### Options/Advanced/Optimise table structure

If a database is used for a longer period of time, this may lead to irregularities in individual tables. Optimising the structure resets the indexes in the table and removes any data inconsistencies.

#### Options/Advanced/Asynchronous loading

Currently not supported.

#### Options/Advanced/Miscellaneous

#### Preferably hold unused TIDs in reserve if reserve stock is increased

If the reserve of a transponder group is increased, TIDs are used which have never been used within the locking system (if TIDs are still available). If the checkbox is not enabled, TIDs which have already been programmed into a locking device before, but are not being used at the moment are also used.

#### Show building structure

If this checkbox is enabled, the abbreviations for the building and the floor of the door selected (if available) are displayed before the door name in the "Door" column in the "Manage WaveNet" mask.

#### Optimise issuing of locking device IDs for card systems

If this checkbox is enabled and a configuration set in G2 card management with "L" or "L\_AV", the LIDs must be issued as follows when new G2 locking devices are created:

- The next free LID is used in the case of hybrid and MIFARE locking devices.
- In the case of locking devices with active technology, an LID is issued which is above the LID range indicated for "Locking device IDs" in G2 card management.

# Immediately delete the overwritten tasks for LSM Mobile from the database

If this checkbox is enabled, the previous export task for the same GUI user is deleted in the "Exported tasks" if a new task is carried out.



## IMPORTANT

Export tasks for the same user which were completed before the checkbox was enabled are not automatically deleted.

#### Switch off access control during initial programming

Enable this checkbox if you do not wish to have any access control in the locking system in general, but still want to use time zone control. This function is then automatically disabled when new locking devices are created.

#### Disassociate reset transponder from holder

Enable this checkbox if the transponder needs to be disassociated from its user when it is reset and the transponder's serial number is to be replaced by the current date and time.

#### Do not change serial number when reset

Enable this checkbox if a transponder's serial number should not be reset when reset (for auditing reasons).

## Options/Advanced/System 3060 locking plan file

Import any locking plan from an LDB database (predecessor to LSM software: Locking Database Software).

#### Options/Advanced/Employee data from LDAP

If employee data are provided on a server using LDAP, they can be imported using the "Employee data from LDAP" button in the LSM software.

#### Options/Advanced/Employee data from CSV file

You can used this button to import employee data, such as last name, first name, department and employee number, into the LSM software from a CSV file.

#### Options/Advanced/Door data from CSV file

You can used this button to import door data, such as the door, room number, area and inside dimension, into the LSM software from a CSV file.

## Options/Advanced/Locking plan from CSV file

You can used this button to import locking plans into the LSM software from a CSV file.

#### Options/Advanced/Export matrix

This button allows you to export the matrix or the locking plan to a CSV file. Note that you can only export the contents of the areas and transponder groups open in the matrix.

## Options/Advanced/Divide locking system

This is where you can divide an existing locking system into two systems. This is useful when a new tenant moves into a building, for example, and they would like to manage a part of the existing locking system themselves.

#### Options/Advanced/Select exceptions in time zone management

If a time group has been assigned to a transponder group, this function enables you to withdraw the assignment to the time group from individual transponders in this transponder group for specific G2 locking devices.

#### Options/Advanced/Time-controlled authorisations

You can use this function to authorise or block individual authorisation crosses at specific point in time (in their target state). This only makes sense in networked locking devices since the locking devices also need to be programmed promptly after the authorisations have been changed to make the change effective.

#### Options/Advanced/Employee photos

Employee photos are stored directly to the database by default. However, there is also the option to save employee photos to any directory.

4.1.8.6 Options/Reports

Enter all data which are to be displayed with the report at this central point.

You can set the data on an individual basis or the same for all reports in LSM Business.

#### 4.1.8.7 Options/Access lists

You can place restrictions on access lists. It is possible to log during a specific time range in days or a maximum number of access events at a locking device.

Note how many access events can be stored on each particular locking device.

### 4.1.8.8 Options/Security user password

This option provides even greater security for the whole locking system.

#### Password must be changed on a regular basis

Enable this option to require all users to change their password after a pre-defined period of time.

#### Use password history of the last 10 passwords

Enable this option to prohibit the use of the last 10 passwords.

#### Password entered incorrectly three times (LSM Business)

Enable this option to block a user after the wrong password has been entered three times.

#### High password security

Only allow highly secure passwords.

#### 4.1.9 Network

Working with networks such as WaveNet or virtual networks can be very complex. You can find information about working with networks in the WaveNet manual.

#### 4.1.9.1 Network/Locking device activation

This is where you can

- activate
- deactivate
- **#** remote-open locking devices in the network

#### 4.1.9.2 Network/Collective tasks

The collective tasks item allows you to start a process such as programming for a larger number of locking devices at the same time.

- 4.1.9.3 Network/Event manager
- 4.1.9.4 Network/Task manager (Business) Available in LSM Business with enabled online module only.
- 4.1.9.5 Network/Email messages (Business) Available in LSM Business with enabled online module only.
- 4.1.9.6 Network/VN service Advanced settings for the virtual network.

#### 4.1.9.7 Network/Communication node

You can select this option to specify communication nodes and their connection devices, such as Router- or CentralNodes.

## 4.1.9.8 Network/Local connections

This is where you can manage the local connections to the PC/server.

- 4.1.9.9 Network/Manage WaveNetYou can use "Manage WaveNet" to create the WaveNet topology and make other settings.
- 4.1.9.10 Network/WaveNet Manager This action launches WaveNet Manager. WaveNet Manager must be installed separately.
- 4.1.9.11 Network/Import WaveNet topology This action opens a window to import WaveNet topologies.
- 4.1.9.12 Network/Manage LON network This is where you can manage older LON networks centrally.
- 4.1.9.13 Network/Terminal Server client settings (Business)

#### 4.1.10 Windows

Switch between open windows.

#### 4.1.11 Help

- 4.1.11.1 Help/Help topics Help topics for LSM software.
- 4.1.11.2 Help/SimonsVoss online support

SimonsVoss provides online support for quick help. You can use this function to launch a free TeamViewer call over the Internet. The computer must have an Internet connection to use this function. After you have authorised access, a support employee will then access your computer to help you with your problem.



## IMPORTANT

Contact SimonsVoss Technologies GmbH first *(e.g. by phone on +49 89 99 228 333)* before you launch online support!

4.1.11.3 Help/SimonsVoss online

Shows the SimonsVoss homepage. You need an Internet connection to use this function.

4.1.11.4 Help/Info about LockSysMgr...

Displays the software and driver version of the LSM software being used.

4.1.11.5 Help/Registration

Displays the registered modules. You can also deactivate activated clients here.

4.1.11.6 Help/Versions overview

Shows the versions of all the installations used with the LSM software.

4.1.11.7 Help/FAQs

Displays the SimonsVoss FAQs database in the browser. You need an Internet connection to use this function.

4.1.11.8 Help/Check for updates

Checks the currently installed LSM software for updates. You need an Internet connection to use this function.

4.1.11.9 Help/Database report

Exports a report in CSV format.

#### 4.2 User interface: Menu ribbon

You can use the menu ribbon to open important and frequently used functions directly.



- 1. Log on
- 2. Log off

- 3. New locking system
- 4. New locking device
- 5. New ID medium (e.g. transponder or card)
- 6. Read locking device
- 7. Read transponder
- 8. Read MIFARE locking device
- 9. Read G2 card/tag
- 10. Programme
- 11. First dataset
- 12. Previous dataset
- 13. Next dataset
- 14. Last dataset
- 15. Remove
- 16. Apply
- 17. Update
- 18. Browse
- 19. Filter
- 20.Help

## 4.3 User interface: Locking system

This section allows you to choose between different locking systems within a project. It also allows you to view the locking system properties and edit them.

## 4.4 User interface: Groups and areas

These sections contain a navigation aid in which the two groups (transponder groups and areas) are mapped in two tree structures.

You can change the window size by dragging the separator line between Areas and Transponder groups and between the matrix and navigation pane.

Different symbols are displayed in the tree view depending on the display status to ensure that you can move around the tree structure as efficiently and reliably as possible:

Locking system transponder groups

ê	Transponder group without transponders
<b>å</b> *	Transponder group which is hidden
<b>å</b> -	Transponder group which is displayed

$\sim$	Locking system area
	Area with no doors
6	Area which is hidden
6	Area which is displayed

#### Procedure:

Subdivided areas and transponder groups with up to 6 levels are only possible in LSM Business.

- Click on the plus sign next to a red symbol and the next level down in the child grouping will appear.
- You can access further lower levels by continuing to click on the new plus signs. The maximum hierarchy depth is six levels.
- You can close the child levels by clicking on the minus sign on the left next to the blue symbol.
- You can close all opened groupings by clicking on the minus sign next to the locking system.
- If you double-click on an area or a group, this will change its respective view (display of contents in the matrix on or off).
- You can also quickly gain a complete overview by opening the whole tree structure:
  - View/All secondary areas/Open groups
- The uppermost group in the tree structure must be closed to also close all open areas or groups again.

Note that more time is required to process the data to be displayed and their display on the screen as the tree structure gets larger. You may experience this when reorganising the structure or refreshing the view.

#### 4.5 User interface: Matrix

This view forms a matrix which provides a visual display of hierarchical personnel and room structures. The matrix is also able to authorise transponder groups for complete areas. This makes it quick and easy to issue basic authorisations in the Areas/Transponder groups view. The Doors/Persons view allows you to issue deviating authorisations in the form of individual extensions or restrictions.

#### Doors/Persons view

×	Authorisation which has been configured, but not programmed into the locking device yet.
×	Authorisation which has been programmed into the locking device.
×	Authorisation which has been removed but not transmitted to the locking device yet.
<b>*</b> ×	Yet to be programmed authorisations which are compliant with the locking system's group structure, i.e. they are from the group view, are marked with a small, black triangle.
×	Programmed authorisations which are compliant with the locking system's group structure, i.e. they are from the group view, are marked with a small, black triangle.
×	Withdrawn authorisations which are compliant with the locking system's group structure and have not been programmed yet.
×	Authorisations which are not compliant with the locking system's group structure are indicated by a cross only and do not feature a black triangle (individual authorisation).
F	Authorisations which have been withdrawn from the locking sys- tem's group structure at a later date feature the black triangle, but no longer feature an authorisation cross.
	Chequered (greyed-out) box: No authorisations can be configured. They do not feature any write accesses or the locking plan blocks this box (e.g. for deactivated transponders or G2 cards at the active cylinder).

#### Areas view/Transponder groups

$\times$	A black cross with a circle inside indicates a group authorisation.

A grey cross with a circle inside indicates an "inherited" authorisa->tion.

#### Group authorisation tree view

- Set manually (black)  $\checkmark$
- ✓
   ✓
   ✓
   ✓
   ✓ Direct inheritance (green) Indirect inheritance – inherited from child group (blue)
- Both direct and indirect inheritance (blue/green)

4

#### Programming requirement

A programming requirement may arise for a transponder or a locking device for different reasons. The programming flashes are shown in different colours to represent the different reasons for a programming requirement.

- Programming requirement for the component (yellow)
  - Programming requirement for the transponder (red):
    - Validity expired
    - Deactivated
  - Locking device (red):
    - Only common locking level assigned
    - Not assigned to any door
    - Not assigned to any locking system
    - Door without locking device
- Programming requirement for a locking device after creating a replacement transponder in G1 system overlay mode
- You can double-click on a component in the matrix to switch directly to the component's properties.

## 5 Basic functions

This section describes the basic processes in the LSM software. LSM software frequently offers a number of ways to access the function that you require. These basic functions mostly show you the quickest and easiest way.

The SimonsVoss Smart User Guide uses an understandable example to describe in detail how a locking system is created and managed.

## 5.1 Add new locking system

- Installation has been completed correctly and a backup has been created.
- 1. Select *Edit/New locking system* in the menu bar.
- 2. Define the required locking system options.
  - Select a colour from "Use as common locking level" for the common locking levels. Common locking levels act as additional levels to existing standard locking systems. See Common locking level.
- 3. Click on the "Apply" button.
- 4. Click on the "Finish" button.

## 5.2 Add new transponder group

- ✓ A locking system has already been added.
- 1. Right-click on transponder groups in the "Groups area" in the LSM software.
- 2. Click on "New".
- 3. Give the new transponder group a name and make other settings if necessary.
- 4. Click on the "Apply" button.
- 5. Click on the "Finish" button.

## 5.3 Add new transponder

- ✓ A locking system has already been added.
- 1. Select *Edit/New transponder*.
- 2. Fill out all attributes and use the "Configuration" button to make further settings if necessary.
- 3. Click on the "Save & next" button.
- 4. Click on the "Finish" button.

## 5.4 Assign transponder to a transponder group at later point in time

- The transponder has already been created and a transponder group has been added.
- 1. Open the locking system settings, using the *Edit/Properties* menu bar, for example: *Locking system*.
- 2. Select the "Transponder" tab.
- 3. Select the transponder from the table with which you wish to correlate a transponder group.
- 4. Select the required transponder group which is to be correlated with the transponder from the drop-down list in "Change assignment to transponder groups".
- 5. Click on the "Execute" button.
- 6. Click on the "Apply" button.
- 7. Click on the "Finish" button.

If a transponder is being newly added, it can be immediately assigned to an existing transponder group.

## 5.5 Add new area

- ✓ A locking system has already been added.
- 1. Right-click on areas in "Areas-area" in the LSM software.
- 2. Click on "New".
- 3. Give the new area a name and make other settings if necessary.
- 4. Click on the "Apply" button.
- 5. Click on the "Finish" button.

## 5.6 Add new locking device

- ✓ A locking system has already been added.
- 1. Select Edit/New locking device.
- 2. Fill out all attributes and use the "Configuration" button to make further settings if necessary.
- 3. Click on the "Save & next" button.
- 4. Click on the "Finish" button.

## 5.7 Assign locking device to an area

- The locking device has already been created and an area has been added.
- 1. Open the locking system settings, using the *Edit/Properties* menu bar, for example: *Locking system*.
- 2. Select the "Doors" tab.

- 3. Select the door from the table with which you wish to correlate an area.
- 4. Select the required area which is to be correlated with the door from the drop-down list in "Change assignment to area".
- 5. Click on the "Execute" button.
- 6. Click on the "Apply" button.
- 7. Click on the "Finish" button.

If a locking device is being newly added, it can be immediately assigned to an existing transponder area.

## 5.8 Issue/withdraw authorisation

You can use the matrix to issue and withdraw authorisations. You only need to click on an authorisation field to change the authorisation in the default setting.

You can only issue or withdraw authorisations between a locking device and a transponder.

Observe the two views:

#### View/Doors and persons

In this view, the authorisations are changed for the transponder concerned.

#### View/Areas and transponder groups

In this view, the authorisations are changed for entire groups.

## 5.9 Working in compliance with data protection regulations GDPR

Since 25 May 2018, the General Data Protection Regulation has been valid throughout Europe. It regulates the handling of personal data in order to ensure their protection and at the same time their free movement within the European internal market. First of all, access to the database via the graphical user interface is only possible with a password and corresponding user rights. Additional "Exceptions in time zone management": In addition, no "special categories" of personal data pursuant to Art. 9 GDPR are stored within the LSM software. The mandatory fields used for a person are used exclusively for the unique assignment of identification media within the locking plan. The obligatory data are only required by the system for the duration of the occupation of an identification medium (e.g. company affiliation). The duration of data storage in logs can be changed at will by the locking system administrator himself (see *Options/Logging* [> 110]).

## 5.9.1 Export data



# IMPORTANT

## Other language texts

The same language as in the LSM software is used for texts in the exported files.

#### Persons

You can export the saved personal data of people in the locking system as CSV files. Three files are generated during this process:

Person	This file contains personal data which can be used to identify the person (for example, sur- name, address or photo).
PersonHistory	This file contains the dates that the data record was created and erased.
PersonLog	This file contains different processing steps which have been performed on the person in question's data record, such as changes to authorisations and programming processes.



## IMPORTANT

The GDPR functions access HR Management for this purpose. As a result, the functions need to be assigned to a user group which is authorised to access HR Management.

- LSM open.
- 1. Use | Options | to select the GDPR functions item.
  - → The "GDPR functions" window will open.
- 2. Highlight the entry for the person whose data needs to be exported in the "People" section.
- 3. Click on the Export personal data button in the "People" section.
  - → The "Search Folder" window will open.

Browse For Folder											
<ul> <li>Desktop</li> <li>This PC</li> <li>Libraries</li> <li>Daten (D:)</li> <li>DVD RW Drive (E:)</li> <li>System (C:)</li> <li>Metwork</li> </ul>	*										
Grafiken Preisliste	~										
Folder: Desktop											
Make New Folder OK Cancel											

- 4. Indicate the folder where the files are to be exported.
- 5. Click on the OK button.
- └→ Data is exported.

#### Users

You can export the users' saved personal data as CSV files in the LSM software. Two files are generated during this process:

User	This file contains the data which refers to the
	user, such as user name and user group.
	This file contains different processing steps which
UserLog	the user has carried out, such as creating a new
	locking device.



## IMPORTANT

The GDPR functions access administration functions for this purpose. As a result, they need to be assigned to a user group which is authorised to access Administration.

- LSM open.
- 1. Use | Options | to select the GDPR functions item.
  - → The "GDPR functions" window will open.
- 2. Highlight the entry for the user whose data needs to be exported in the "Users" section.

3. Click on the Export personal data button in the "Users" section.→ The "Search Folder" window will open.

Browse For Folder												
🔜 Desktop	^											
> & Geogra Hardisman												
> 💻 This PC												
> 🐂 Libraries												
> 🔜 Daten (D:)												
> 🔐 DVD RW Drive (E:)												
> 🏪 System (C:)												
> 💣 Network												
Excel												
Science Stratiken Preisliste	~											
Folder: Desktop												
Make New Folder OK Cancel												

- 4. Indicate the folder where the files are to be exported.
- 5. Click on the OK button.
- └→ Data is exported.

#### 5.9.2 Deleting Data

You can also use the GDPR module to easily erase personal data.

#### Persons

IMPORTANT
The GDPR functions access HR Management for this purpose. As a result, the functions need to be assigned to a user group which is authorised to access HR Management.
✓ LSM open.

- 1. Use | Options | to select the GDPR functions item.
  - → The "GDPR functions" window will open.
- 2. Highlight the entry for the person whose data needs to be erased in the "People" section.
- 3. Click on the Permanently delete personal data button in the "People" section.
  - → The "LockSysMgr" window will open.



- 4. Click on the Yes button.
- → The highlighted person's personal data is erased or anonymised.



## IMPORTANT

#### Erasure of remaining data from previous deletions

You can also use the 🐱 button in the [Name] tab in the assigned identification media to erase personal data. Unlike erasure using the GDPR module, this button does not delete logs, which will remain in the system. This means that only a part of personal data is erased. People who are deleted in this way are no longer displayed in the GDPR module. Please use the Delete button in the "Database" section to meet GDPR requirements and also remove such files.

#### Users



#### IMPORTANT

The GDPR functions access administration functions for this purpose. As a result, they need to be assigned to a user group which is authorised to access Administration.

- LSM open.
- Use | Options | to select the GDPR functions item.
   → The "GDPR functions" window will open.
- 2. Highlight the entry for the user whose data needs to be erased in the "Users" section.
- 3. Click on the Permanently delete personal data button in the "Users" section.
  - → The "LockSysMgr" window will open.



- 4. Click on the Yes button.
- $\rightarrow$  The highlighted user's personal data is erased or anonymised.

## 5.10 Add PIN code Keypad

A PIN code keypad cannot be operated in pure G2 locking systems. The three user PINs act in the same way as G1 transponders.

## 5.10.1 Configure PIN code Keypad

#### Changing the master PIN

You only need to carry out this step if no new master PIN has been programmed yet.

- 1. Enter 0 0 0 0
- 2. Enter old master PIN: 12345678
- 3. Enter new master PIN
  - → The new master PIN must consist of 8 characters which must not be consecutive or identical and must not begin with 0.
- 4. Re-entering the new master PIN



#### IMPORTANT

The master PIN is essential for using the PIN code Keypad and cannot be imported, read or regenerated. Make a note of the master PIN and keep it in a safe, secret place. *Anyone who knows the master PIN can open or block PIN code Keypad locking devices by creating new user PINs themselves.* 

#### Programming a user PIN

You can issue up to three user PINs for a PIN code Keypad. The user PIN can consist of between 4 and 8 digits, which must not be consecutive or identical.

An aid to better understanding: Each user PIN behaves as a separate transponder. As a result, these individual user PINs must be programmed in the respective (internal) transponders (1, 2 & 3).

- 1. Enter O
- 2. Enter master PIN
- 3. Enter user PIN e.g. 1 for User PIN 1
- 4. Enter the user PIN length e.g. 4 for a 4-digit user PIN
- 5. Enter User PIN

Repeat the process to programme other user PINs into the PIN code Keypad.

#### 5.10.2 Add PIN code Keypad to the locking plan

You **must** make a new entry for each user PIN.

- 1. Select *Edit / New transponder* from the menu bar.
- 2. Select the "G1 PinCode" entry in Type from the drop-down list and complete the other information.
  - → The entry can be edited in detail in the same way as a transponder at a later point in time.
- 3. Select Save & continue
- 4. Select End

#### 5.10.3 Programme PIN code Keypad

- 1. LSM: right-click on the transponder/PIN code in the locking plan and select *Programme*.
  - → The 'Programme transponder' window opens.
- 2. PIN code Keypad: Enter 0 0 + master PIN
- 3. LSM: Select *Programme*.
  - → The programming process starts.
- 4. PIN code Keypad: Press user PIN, e.g. 1 for User PIN 1/ Internal Transponder 1, as soon as LSM displays the instruction 'Press the transponder button briefly once now'.
  - → The programming process is now complete.

Repeat the process to programme other user PINs into the locking plan.

## 5.11 Search matrix

The search enables you to search easily for different items, such as a specific door or a specific transponder.

🔀 🛱 🛱 🚳 🚱	0 <mark>2</mark>	6?	7	4	M	Þ	.⊧E	۶X	i ⊧↓	\$3	Q,	F <sub>0</sub>	?				
		First	name		lastnam	 Addr	855		Telen	email	Depar	Perso	Title	Locati	Cost	Descr	-
Object		Jenni	fer		Peterman	 1.00			089-1	jennif	10000	P-000	1 1100		4711		
Person	•																
Property																	
First name	•																
☐ Not assigned ☐ Not programmed Search																	
Jennifer	-	-															
Use capital/small letters Options C Search for entire field only C Search at the beginning of the field																	
Find           Print view																	
Navigation to view	-1	-															
Properties																	
C Matrix Execute																	
		h															

- Elements have already been added to the locking system, which you can search for.
- 1. Click on the magnifier icon in the icon bar.
- 2. Select the object that you wish to look for, such as persons, transponders, doors or locking devices.
- 3. Select a characteristic of the object that you are looking for, such as a last name or first name.
- 4. Enter a search term into the search field.
- 5. Click on the "Search" button to start the search process.

## 5.12 Execute group actions

Settings for a number of components can be made in just one single step. In this example, the properties of several G2 locking devices *(e.g. enable access control)* are to be changed all at once.

- 1. Click on the magnifier icon in the icon bar.
- 2. Search for all "Locking device"-type objects, for example.
  - ► No details need to be added in the "Search" field when searching for all locking devices.
- 3. Select a number of locking devices by filtering by type or area.

- 4. Click on the "Group actions" button.
  - If only G2 locking devices were selected in the preceding step, the correct parameters ("Configuration changes to G2 locking devices" and "G2 locking cylinders active/hybrid") have already been selected.
- 5. Press on "Execute" button to start the changes to the selected locking devices.
- 6. Make the changes as you wish.
- 7. Click on the "Finish" button to save the new settings.



## IMPORTANT

This process allows you to change many settings quickly and easily. Take into account that each changed component must be reprogrammed.

## 5.13 Programme transponder

- A transponder has been added to the locking system and is visible in the matrix.
- 1. Right-click on the transponder concerned.
- 2. Click on Programme.
- 3. Follow the instructions in the LSM software.

Ensure that you select the right programming device.

You can use the "TIDs to deactivate" button to open a list from which you can select one or two transponder IDs which are to be deactivated (see *Replace defective, lost or stolen transponders* [+ 135]).



#### IMPORTANT

#### Automatically recognise G2 cards

It is not always possible to distinguish between cards as ID media. If there are a number of cards, the card which is to be programmed now needs to be read first to select the right card to be programmed in LSM. This step is omitted if the "Automatically recognise G2 card" box is checked. If LSM already knows the card, its data record is selected and programmed automatically.

#### 5.14 Programme locking device

- A locking device has been added to the locking system and is visible in the matrix.
- 1. Right-click on the locking device concerned.

- 2. Click on Programme.
- 3. Follow the instructions in the LSM software.

Ensure that you select the right programming device.



## IMPORTANT

Only one locking device may be near the programming device at any time.

## 5.15 Define time zone plan (with public holidays and company holidays



## IMPORTANT

## Different times for G2 locks

The internal time unit of the G2 locks has a technical tolerance of up to  $\pm$  15 minutes per year.

It is recommended to apply time zone plans to entire areas and transponder groups. However, it is also possible to link time zone plans directly with locking devices and transponders.

- Locking devices (or areas) and transponders (or transponder groups) have already been created.
- 1. Click on *Edit/Time zone plan* in the menu bar.
  - An "empty time zone plan" will open up. If an existing time zone plan is displayed, click on the "New" button to create a new, empty time zone plan.
- 2. Fill out the "Name" and "Description" fields.
- 3. Select a public holiday list for your region if required. This is how to proceed if you wish to define one-time company holidays:
  - └→ Click on the "... field" next to the holiday day drop-down selection.
  - └→ Click on the "New holiday day" button.
  - → Assign a name: e.g. "Company holiday 2017"
  - ➡ Newly defined holidays may contain a time period. The "Leave" field must be activated for this purpose. You can then enter a time period (From - To).
  - → Select how the new holiday day should be treated: e.g. as "Sunday".
  - $\hookrightarrow$  Click on the "Apply" button and then on the "Finish" button.
  - └→ Click on the "Holiday administration" button.
  - → Use the "Add" button in the holidays list (in the right-hand column) to add the newly created holiday (in the left-hand column).
  - Glick on the "OK" button and then on the "Finish" button to return to the main time zone plan menu.

- 4. Select a group in the table and edit the weekly schedule for the group.
  - → A blue bar indicates an authorisation for this time period.
  - └→ You can click on fields individually or select them together.
  - → Each time that you click on a field or area, you reverse the authorisation status.

- 5. Click on the "Apply" button.
- 6. Click on the "Finish" button.

Assign the time zone plan to an area:

- 1. Right-click on the area to which you wish to assign the time plan.
- 2. Select "Properties".
- 3. Select the corresponding time zone plan from the drop-down list in "Time zone".
- 4. Click on the "Apply" button.
- 5. Click on the "Finish" button.

It is also possible to assign the time zone plan to a locking device directly.

Assign a transponder group to the time group:

- 1. Right-click on the transponder group which is to be assigned to the time group.
- 2. Select "Properties".
- 3. Select the corresponding time group from the drop-down list in "Time zone group".
- 4. Click on the "Apply" button.
- 5. Click on the "Finish" button.

It is also possible to assign the time group directly to a transponder.

#### 5.16 Resetting components

All SimonsVoss components can be reset at any time. You can even reset SimonsVoss components which do not belong to the locking system. In such a case, you need the corresponding locking system password.

Resetting components is an effective solution in many scenarios. It is advisable to reset and reprogramme the components in question particularly if they may not be functioning correctly.

- 1. Use *Programming/Read components* to read the components concerned.
- 2. Select the "Reset" button to start the reset process.

- 3. Follow the instructions in the LSM software.
  - → If necessary, you will be requested to enter the locking system password or select the dataset to be deleted.

## 5.17 Replace defective locking device

Locking devices may become damaged or contain a defect.

Proceed as follows to replace a defective locking device with a new one:

- 1. Remove the defective locking device from the door.
  - ➡ It may be difficult to remove a cylinder from a closed door. If necessary, ask the specialist who installed the SimonsVoss products for advice.
- 2. Acquire a replacement locking device.
  - → Double-click on the defective locking device in the LSM software to find all details on the locking device in the "Features" tab.
- 3. Carry out a software reset on the locking device in the LSM software.
  - Double-click on the defective locking device to open the "Configuration/Data" button, where you will see the "Software reset" button.
  - → Once the software reset is complete, the software indicates a programming requirement for the defective locking device.
- 4. Carry out a programming process on the replacement locking device.
- 5. Fit the replacement locking device into the door and check that it functions correctly.



## IMPORTANT

If a fault or error occurs, first try to reset the locking device itself by implementing a readout. After resetting the locking device, you can then possibly reprogramme it.



## IMPORTANT

You must reset defective locking devices if at all possible before sending them to a retailer or SimonsVoss Technologies GmbH.

## 5.18 Replace defective, lost or stolen transponders

Transponders may get lost, stolen or damaged at some point. Whatever the case, the old transponder needs to be reset in the locking plan and a replacement transponder needs to be created.



## IMPORTANT

For security reasons, the deleted transponder's authorisations must be removed from all locking devices. You can do this by reprogramming all locking devices.

Proceed as follows to replace an "old" transponder with a new, nonprogrammed transponder.

- 1. Acquire a replacement transponder.
  - → Double-click on the defective transponder in the LSM software to find all details on the transponder in the "Features" tab.
- 2. Right-click on the defective, lost or stolen transponder and select "Lost transponder".
  - → The transponder concerned is prepared for blocking.
  - Indicate the reason why blocking is necessary. When you select "Transponder lost/stolen", you can then programme a new transponder with the same authorisations directly afterwards. With the G2 protocol, this transponder blocks the lost transponder each time an authorised locking device is activated. However, all locking devices concerned still need to be reprogrammed.
- 3. Implement all the newly appeared programming requirements on all components.

## Avoiding the need to reprogramme locking devices

Creating a new replacement transponder also entails a programming requirement for all locking devices. However, these special programming tasks can also be implemented directly with the new replacement transponder:

- ✓ The replacement transponder has been programmed correctly.
- 1. Activate the new replacement transponder on each locking device.
- 2. Programme the new replacement transponder again. Activate the checkbox "Read deactivation acknowledgement/Battery warnings" in the "Programme transponder" window.
- 3. Update the matrix. The programming requirement has now disappeared.

With LSM 3.4 SP2 and higher, it is possible to "inform" any number of transponders one or two other transponder IDs which need to be deactivated.

## Programme the TIDs to be disabled directly

The IDs to be disabled are saved on the transponder during the programming process.

- ✓ The transponder is physically available.
- ✓ The transponder's programming window is open.
- 1. Click on the "TIDs to deactivate" button.
  - → The list will open.
- 2. Activate one or two check marks in the TID column to save the TIDs to be deleted on the transponder.
- 3. Click on the OK button to confirm your input.
- 4. Continue with the programming.
- → The checked TIDs will be saved to the transponder as TIDs to delete.
   When the transponder is authenticated on one of the locking devices concerned, the TIDs to be deleted are deactivated at the locking device.

## Add the TIDs to be blocked to the properties

The IDs to be deactivated are saved on the transponder either during the next programming process or the next booking on a gateway.

- ✓ The transponder's properties window is open.
- 1. Change to the "Configuration" tab.
- 2. Click on the "TIDs to deactivate" button.
  - └→ The list will open.
- 3. Activate one or two check marks in the TID column to save the TIDs to be deleted on the transponder.
- 4. Click on the OK button to confirm your input.
- → The checked TIDs are saved on the transponder either during the next programming process or the next booking on a gateway.

## 5.19 Check and evaluate the battery level in the locking devices

There are different ways to query a locking device's battery level. In regular offline locking systems (and VN), the battery levels must first be transmitted to the LSM software before they can be evaluated in different ways.

#### Transmitting battery levels to the LSM software

#### Fast & efficient: "collect" battery levels using a transponder

- 1. Take a transponder which is authorised for use on all locking devices. Activate this transponder on each locking device.
- 2. Re-programme the transponder. Activate the checkbox "Read deactivation acknowledgement/Battery warnings" in the "Programme transponder" window.

Select "Programme/read locking device" to read the required locking devices separately.

#### Transmitting battery levels to the LSM software using LSM Mobile

You can use LSM Mobile to read battery levels directly or transmit them to the LSM software. Follow the instructions in the LSM Mobile manual. You will find it under Documents in the Support section on the SimonsVoss website (*www.simons-voss.com/en*).

#### Displaying battery levels

#### Basic procedure for all LSM versions:

- The current battery warnings in the locking devices concerned have been transmitted to the LSM software.
- 1. Double-click on a locking device to display the locking device properties.
- 2. Select the "Status" tab.
- 3. The battery level will be displayed in the "Status at last readout".

# Displaying battery warnings collectively in LSM BASIC Online and LSM BUSINESS:

Generate a list which displays all locking devices with battery warnings.

- The current battery warnings in the locking devices concerned have been transmitted to the LSM software.
- 1. Select from the "Reports/Building structure" menu bar.
- 2. Select the "Locking devices with battery warnings".
- 3. Click on the "Display" button.

#### Displaying battery warnings automatically in LSM Business

Create a warning which displays battery warnings directly.

- The current battery warnings in the locking devices concerned have been transmitted to the LSM software.
- 1. Selecting from the "Reports/Warnings" menu bar
- 2. Create a new warning using the "New" button.
- 3. Create the warning as you wish. Select "Locking device battery warning" as the type.
- 4. Do not forget to assign the locking devices concerned to this warning. The "Locking devices" field should not be empty.
- 5. Click on the "OK" button to confirm the new warning.

6. Click on the "Exit" button to close the dialogue.

#### 5.20 Common locking level

Common locking levels can only be operated with active components. You cannot use passive card technology or smart tags for common locking levels.

#### 5.20.1 Add common locking level

You must take the following into account for common locking levels:

- Common locking levels must use the same protocol generations.
- The red locking level should only be used for the fire service or other emergency services since it has been specifically optimised for this particular use.

In principle, a common locking level is used in the same way as any other locking system, e.g. using the "New locking system" button in the icon bar:

Lo	ckin	g Sy	ster	n M	lana	ige	mer	nt -	Sma	irtXC	han	ge -	New	/ locl	king	syste	em]																			_		;	×
Fil	e	Data	bas	e	Vie	N	Wi	zard	s E	dit	Re	port	5 P	rogr	amm	ning	Ne	two	rk	Opt	ions	W	/indo	w	Helj	5												- 8	×
Z	×	ŀ			6	Ļ	(	<b>)</b>	6	?	0	è	67		?		4		•		I	₽		M		×		L	9		Q,	Ę	¥	?					
		Na Us De Gi Ol Na Co Qu Na Co Qu	me e as scrip d Pa sw P nfim iality 2 d Pa sw P nfim iality	ger otior ssw assv assv assv assv	ord: vord ssw	l loc l (to ord:	pro	a leve	file)	<b>?</b>	0		een		· ·				78 bi	ts					itanc Trans Area	enera i1 matica e in th spond hierar	ally as a line hier group ode	erarci	•. J	ID thy			×	~					
												Α	pply			E	-xit			He	elp																		
idle																										SANT	raba	ARB4	ARA :	CON	13  TC	СР ро	rt:60	00	1	Admin	NU	M	11.

Select any colour in "Use as common locking level".

#### 5.20.2 Link locking devices

- ✓ A common locking level has already been created.
- 1. Right-click on an area in the common locking level and select "Properties".
- 2. Select "Door management" button.
- 3. The right-hand table shows all locking devices in all locking systems in the project. Use the "Add" button to select the locking devices required.

Door	Location	Building	Floor	Sti		Door	Location	Building	Floor	5
Main entrance		-			< - Add all	development_office1				
Side entrance					Z + Add	development_office2				
					V Mud	DM_TN4				
						Emergency exit				
						product_manageme				
						product_manageme				
					-					
					Hemove ->					
					Remove all - >					
<				>		<				2
Cotal: 0		Selected: (	1			Total: 8		Selected: 0		

#### 5.20.3 Link transponders

Transponders should only be linked to non-common locking levels.

- ✓ Transponders or transponder groups have already been added.
- 1. Right-click on the transponder group and select "Properties".
- 2. Select the "Automatic" button in transponder allocation.

3. The right-hand table shows all transponders in all other locking systems in the project. Use the "Add" button to select the transponders required.

ssigned	G1 Maximu	um: 8			Free			
Owner	Serial number	Туре	St	Add all	Owner	Serial number	Туре	5
lansen, Daniel	T-00003	G2 Transponder			cleaning, 3	T-00001	G2 Transponder	1
Ailler, James Peterman Jennifer	00001/N	G2 Transponder		< - Add	cleaning, 2	1-00006	G2 Transponder	
eterman, serimen	0402322	Ciz mansponder			Clearning, 1	1-00007	Ciz mansponder	
				Remove ->				
				Remove all ->				
c			>		<			3
otal: 3 (G1: 3)	Sele	ected: 0			Total: 3	Sele	cted: 0	
Stat. 5 (G1: 5)	e: * - The ass	ignment of a deactiva	ted tran	sponder cannot be char	naed!	000	citod. U	

#### 5.20.4 Authorise transponders

As in each common locking level, selected transponder groups can also be authorised for all locking devices in the "red level" with just a few mouse clicks. This function is particularly suitable for fire service transponders.

- ✓ You have now already added a red common locking level.
- 1. Open red common locking system.
- 2. Create transponder group which should be authorised for all areas relevant for the fire service.
- 3. Click on the "Authorisations" button in the transponder group properties in Administration.
- 4. Use the checkboxes to select all the areas/locking devices required to grant access through all doors to the transponder group.

## 5.21 Create fire service transponders

- ✓ You have already created at least one locking system.
- 1. Create a new "red" common locking level, using *Edit/New locking system*, for example.
- 2. Add a new area, such as "All locking devices", and use "Door administration" to assign all the locking devices required to this area.
- 3. Add a new "Fire service" transponder group to the common locking level.
- 4. Click on the "Authorisations" button in the properties for the "Fire service" transponder group.
- 5. Enable the "All systems" checkbox to authorise this transponder group for all locking devices in general.
- 6. Click on the "OK" button to save the settings.
- 7. Add a new transponder "Fire service transponder 1", for example to the transponder group and programme it. *All locking devices also need to be reprogrammed. Note the new programming requirement which has now appeared.*

The "Fire service transponder 1" fire service transponder created in this step is authorised for all locking devices. Even deactivated locking devices can be opened in the red level, making it markedly different from "green" and "blue" levels.

## 5.22 Setting up DoorMonitoring components

The DoorMonitoring function is an add-on feature to display door statuses in the LSM software. SmartHandles and locking cylinders with the DoorMonitoring function are installed in the LSM software in exactly the same way as regular locking components.

- Add new DoorMonitoring locking cylinder: Select "G2 DoorMonitoring cylinder" as the locking device type from the drop-down list.
- Add new DoorMonitoring SmartHandle: Select "G2 DoorMonitoring SmartHandle" as the locking device type from the drop-down list.

## Tab: Configuration/Data

Use the "Monitoring configuration" button to make further settings.

## Tab: DoorMonitoring status

This tab shows the door's current status. The status is shown real time.

A direct connection is required between the LSM software and locking components (e.g. via WaveNet) to ensure that this status display is always up to date. You will find more detailed information on setting up a WaveNet wireless network in the WaveNet manual.

## 5.23 Programme using LSM Mobile

You can use LSM Mobile to carry out programming tasks directly on a locking device using mobile devices. This programming takes place as follows:

- 1. A list with components which indicate a programming requirement is exported to the LSM Mobile device from the LSM software, *either directly on the pocket PC or as a file for a notebook, netbook or tablet units*
- 2. LSM Mobile is launched on the mobile device. You can start the programming of components with the export from the LSM software.
- 3. The LSM software must then be informed which components have been programmed using LSM Mobile. This achieved using an import or synchronisation from LSM Mobile to the LSM software.

## 5.23.1 With pocket PC/PDA



## IMPORTANT

Programming with LSM Mobile will only work in the G1 protocol with a pocket PC or PDA.

This how you programme with the help of LSM Mobile:

- ✓ There are components in the LSM software which require programming.
- Initial programming has already been completed on the components requiring programming.
- LSM Mobile has been correctly installed on the mobile device. The version numbers are identical.
- ✓ The SMARTCD.G2 programming device is charged and connected to the PDA via Bluetooth.
- The pocket PC drivers have been correctly installed on the computer and a connection has been established.
- 1. Select *Programming/LSM Mobile/Export to LSM Mobile/LSM Mobile PDA*.
- 2. Follow the instructions in the LSM software and transfer the programming tasks to the PDA.
- 3. Launch LSM Mobile on the PDA and log on to the locking system concerned.

- 4. Use the programming device to carry out the programming processes on the components concerned.
- 5. Select *Programming/LSM Mobile/Import from LSM Mobile/LSM Mobile PDA*.
- 6. Follow the instructions in the LSM software and synchronize the programming tasks.

The programming tasks have been completed using the PDA. Synchronisation in the last step ensures that the programming flash icons indicating a programming requirement disappear from the LSM software.

#### 5.23.2 With laptop, netbook or tablet PC

This how you programme with the help of LSM Mobile:

- ✓ There are components in the LSM software which require programming.
- Initial programming has already been completed on the components requiring programming.
- LSM Mobile has been correctly installed on the mobile device. The version numbers are identical.
- The drivers have been correctly installed in the SMARTCD.G2 and SMARTCD.MP programming devices (depending on requirements).
- 1. Select *Programming/LSM Mobile/Export to LSM Mobile/LSM Mobile PC*.
- 2. Follow the instructions in the LSM software and export the programming tasks in a file.
- 3. Launch LSM Mobile on the mobile PC and import the file with the programming tasks into LSM Mobile.
- 4. Follow the instructions in LSM Mobile.
- 5. Use the programming device to carry out the programming processes on the components concerned.
- 6. Export the status of the programming tasks.
- 7. Select *Programming/LSM Mobile/Import from LSM Mobile/LSM Mobile PC*.
- 8. Follow the instructions in the LSM software and import the file from LSM Mobile.

The programming tasks have been completed using the external device. The import in the last step ensures that the programming flash icons indicating a programming requirement disappear from the LSM software.
### 5.24 Reset storage mode in G1 locking devices

If battery warnings are ignored in G1 locking devices, the locking devices concerned switch to storage mode. This prevents the batteries from being fully discharged. Storage mode can be terminated by reprogramming the locking device. The locking device must then be opened with an authorised transponder and the batteries replaced immediately.

### 5.25 Access administration

The reading of access and physical access lists can be greatly restricted to protect privacy. In LSM Basic, the "AdminAL" (Admin Access List) user is added as standard for this purpose. In LSM BUSINESS, you can add a suitable user manually; see *Administer users (BUSINESS)* [+ 146].

The following scenario is described in this section: Only an authorised person (e.g. Works Council logged on as the AdminAL) should be able to read access lists and physical access lists. The general locking system administrator is not given this right.

#### Configure AdminAL and permit reading of access lists

- 1. Use the "Admin" user name and your password to log on to your project.
- 2. Select "Edit/User group" to open user group administration.
- 3. Use the navigation arrow to scroll to the "Access lists administration" user group (or to any previously added user group in LSM Business).
- 4. Ensure that the "Access lists administration" and "Manage access lists" rights are activated in the "Role" section.
- 5. Click on the "Edit" field beneath "Role" section.
- 6. Activate the required locking systems in transponder groups and areas. If you have added areas or transponder groups, you must activate all required areas and transponder groups separately.
- 7. Click on the "OK" button to close the mask.
- 8. Confirm the settings that you made by pressing on the "Apply" and "Finish" buttons.
- 9. Select "Database/Log off" to log off from your current project.

#### Remove rights to read access lists from Admin



#### IMPORTANT

The "Access lists administration" right must always be assigned to a user/ user group and must not be withdrawn from both.

- 1. Use the "AdminAl" user name to log on to the project.
  - → The default password in LSM BASIC is "system3060".
  - → Change this password immediately.
- 2. Select "Edit/User group" to open user group administration.
- 3. Use the navigation arrow to scroll to the "Admin" user group.
- 4. Deactivate the "Access lists administration" and "Administer access lists" roles.
- 5. Confirm the settings that you made by pressing on the "Apply" and "Finish" buttons.
  - → Configuration is now complete. Only the "AdminAL" user account may read or view access lists and physical access lists from now on.

# 5.26 Administer users (BUSINESS)

#### Assign user to a user group

- 1. Click on "Edit/User group".
- 2. Use the navigation arrow to scroll to a user group (or use the "New" button to create a new user group).
- 3. Click on the "Edit" button.
- 4. Highlight the user that you require and use the "Add" button to assign them to the user group.
- 5. Click on the "OK" button to confirm the settings that you have made.
- 6. Correct the roles if necessary.
  - └→ Click on the "Edit" field beneath "Role" section.
  - → Activate the required locking systems in transponder groups and areas. If you have added areas or transponder groups, you must activate all required areas and transponder groups separately.
  - └→ Click on the "OK" button to close the mask.
- 7. Confirm the settings that you made by pressing on the "Apply" and "Finish" buttons.

#### Creating a new user

- 1. Click on "Edit/User".
- 2. Click on the "New" button to add a new user.
- 3. Issue a new user name and enter a password.
- 4. Confirm the settings that you made by pressing on the "Apply" and "Finish" buttons.

### 5.27 Card management

Below you can see the different card types and the distribution of memory in connection with the SimonsVoss locking system.

#### ATTENTION

#### MIFARE DESFire recommended

Compared to MIFARE Classic, MIFARE DESFire uses microcontroller-based encryption based on AES-128, which has been further developed to meet increased security requirements.

SimonsVoss recommends the use of transponders or MIFARE DESFire products.



### IMPORTANT

#### Different templates for AX products

If you want to use MIFARE products for SimonsVoss AX products, the templates used for writing and reading must be identical.

#### 5.27.1 Change configuration

You have two options for using cards.

- You can use cards that have already been used.
- Hou can use new cards.

In both cases, enter the card type, the configuration and, if necessary, the sectors to be described (see *Overview* [ $\bullet$  149]).

#### Configuring the card

- ✓ LSM open.
- 1. Switch to the locking system whose card management you want to change.
- 2. Click on the button to open the properties of the locking system ... .

3. Change to the tab [G2 card management].

Name   Locks   Doors   Transponder   Transponder	groups Areas Pas	sword Special T	IDs PIN-Code Terminal	Card management G1	G2 card management
Locking system: HIMYM		Level:	Standard		
Card type:		Mifare Classic		•	
Configuration:		MC1000L_AV		•	
Memory space need	ed:	528	Bytes		
Lock IDs:		128-1127	in card profile		
Access instances in	the log:	19			
Virtual network:		ОК			
Parameter:					
Name	Value		Description		_
SectList	2,3,4,5,6,7,8,9,10,1	1,12,13,14,15	Sector List		
TransportSectorT			Transport Settings		
1					
		Print viev	v		

- 4. In the dropdown menu  $\checkmark$  Card type select your card type.
- 5. In the dropdown menu ▼ Configuration select your configuration.
- 6. If necessary, enter further parameters such as sectors (e.g: 2,3,4,5,6,7,8,9,10,11,12,13,14,15).

Name	Value	Description
SectList	2,3,4,5,6,7,8,9,10,11,12,13,14,15	Sector List
TransportSectorT		Transport Settings

- 7. Click on the Apply button.
- → You have changed the configuration.

5.27.2 Overview

		MIFARE	DESFire	MIFARE D Predefine	ESFire d	MIFARE [ Predefine	DESFire ed DB1
MDBasic		√		✓		×	
MD1200L		$\checkmark$		√		×	
MD3800L		$\checkmark$		$\checkmark$		×	
MD2500L_	AV	$\checkmark$		$\checkmark$		×	
MD4000L_	_AV	$\checkmark$		$\checkmark$		×	
MD10000L	_AV	$\checkmark$		$\checkmark$		×	
MD32000L	_AV	$\checkmark$		$\checkmark$		×	
MD2400L_	AV	×		×		✓	
MD3650L_	AV	×		×		✓	
	MIFA Class	ARE C sic de	IIFARE lassic Pre- efined A	MIFARE Classic Pr defined B	MIFAF e- Classi DESFi	RE MI c + S/ re	FARE Plus X
MCBasic	<b>√</b>	√		√	×	1	
MC1200L	$\checkmark$	$\checkmark$		$\checkmark$	×	1	
MC3800L	$\checkmark$	$\checkmark$		$\checkmark$	×	$\checkmark$	
MC1000L_/	AV X	$\checkmark$		$\checkmark$	×	<b>√</b>	
MC2400L_ V	A <b>x</b>	$\checkmark$		$\checkmark$	×	$\checkmark$	
MC8000L_ V	_A <b>x</b>	$\checkmark$		$\checkmark$	×	$\checkmark$	
MBasic	×	×		×	$\checkmark$	×	
M1200L	×	×		×	$\checkmark$	×	
M3800L	×	×		×	$\checkmark$	×	
M1000L_A	V <b>X</b>	×		×	$\checkmark$	×	
M4000L_A	X V	×		×	$\checkmark$	×	
M8000L_A	V X	×		×	$\checkmark$	×	
M10000L_/	AV X	×		×	$\checkmark$	×	
	G1/G2	Lock-IDs	Number of locks	Access list	Sectors	Required storage space	Virtual network
MCBasic (	GI	×	×	×	2-15	48	×
MC1200L (	G2	128-1327	1200	×	2-15	192	×

	G1/G2	Lock-IDs	Number of locks	Access list	Sectors	Required storage space	Virtual network
MC3800 L	G2	128-3927	3800	×	2-15	528	×
MC1000L _AV	G2	128-1127	1000	19	2-15	528	✓
MC2400L _AV	G2	128-2527	2400	70	2-15 + 31-39	900	✓
MC8000 L_AV	G2	128-8127	8000	125	2-15 + 31-39	2048	✓
MBasic	G1	×	×	×	2-15	48	×
M1200L	G2	128-1327	1200	×	2-15	192	×
M3800L	G2	128-3927	3800	×	2-15	528	×
M1000L_ AV	G2	128-1127	1000	16	2-15	528	<b>√</b>
M4000L_ AV	G2	128-4127	4000	100	2-15 + 31-39	1600	✓
M8000L_ AV	G2	128-8127	8000	124	2-15 + 31-39	2048	$\checkmark$
M10000L _AV	G2	128-10127	10000	225	2-15 + 31-39	3048	$\checkmark$
MDBasic	Gl	×	×	×	2-15	48	×
MD1200L	G2	128-1327	1200	×	2-15	192	×
MD3800 L	G2	128-3927	3800	×	n.a. (DES- Fire)	528	×
MD2500L _AV	G2	128-2627	2500	58	n.a. (DES- Fire)	1024	✓
MD4000 L_AV	G2	128-4127	4000	100	n.a. (DES- Fire)	1600	✓
MD1000L _AV	G2	128-10127	10000	225	n.a. (DES- Fire)	3048	✓
MD3200L _AV	G2	128-32127	32000	470	n.a. (DES- Fire)	7000	✓
MD2400L _AV	G2	128-2527	2400	34	n.a. (DES- Fire)	830	$\checkmark$
MD3650L _AV	G2	128-3777	3650	2	n.a. (DES- Fire)	830	✓

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# 6 Performing standard WaveNet-based tasks in LSM Business

This example shows the key steps in setting up and administrating a WaveNet radio network in LSM Business. The examples are based on specific installations and are meant to help you become familiar with topics related to WaveNet.

# 6.1 Creating a WaveNet radio network and incorporating a locking device

This example describes how you can create a WaveNet radio network from scratch. The aim is to address a locking device via a RouterNode2.

### 6.1.1 Preparing the LSM software

Note that the LSM software required to network SimonsVoss locking components must be properly installed and a corresponding network module licensed.

- 1. Install the CommNode server and ensure that the service has been started.
- 2. Install the current version of WaveNet Manager. (See Installation of the WaveNet Manager)
- 3. Open the LSM software and select "Network/WaveNet Manager".
  - ➡ Enter the WaveNet Manager installation directory and select a directory for the output file.
  - → Use the "Launch" button to open WaveNet Manager.
- 4. Provide a password to increase your network's security.
- ➡ WaveNet Manager launches and the settings are saved for the future. Exit WaveNet Manager to make further settings.

#### 6.1.2 Initial programming of the locking components

Before locking devices can be incorporated into the network, they first need to be programmed.

- 6.1.2.1 Add new locking device
  - ✓ A locking system has already been added.
  - 1. Select *Edit/New locking device*.
  - 2. Fill out all attributes and use the "Configuration" button to make further settings if necessary.
  - 3. Click on the "Save & next" button.
  - 4. Click on the "Finish" button.

#### 6.1.2.2 Programme locking device

- A locking device has been added to the locking system and is visible in the matrix.
- 1. Right-click on the locking device concerned.
- 2. Click on Programme.
- 3. Follow the instructions in the LSM software.

Ensure that you select the right programming device.



# IMPORTANT

Only one locking device may be near the programming device at any time.

#### 6.1.3 Preparing hardware

The current RouterNode2 is put into operation quickly and easily. Connect the RouterNode2 as described in the supplied quick guide. The RouterNode2 is pre-configured in the factory, so that it obtains its IP address from a DHCP server. You can quickly identify this IP address using the OAM tool (available free of charge under Informative Material/ Software Downloads/Drivers in the Support section).



### IMPORTANT

Standard settings: IP address: 192,168,100,100 User name: SimonsVoss | Password: SimonsVoss

If the locking device has not been equipped with a LockNode (LN.I) in the factory, you need to retrofit one with appropriate accessories.



#### IMPORTANT

Note down the RouterNode2's IP address and the locking device's chip ID after you have correctly prepared the hardware.

#### 6.1.4 Creating communication nodes

The communication node forms the interface between the CommNode server and the LSM software. You must launch the LSM software using an administrator account to add the configuration XMLs.

1. Open the LSM software.

- 2. Select "Network/Communication nodes".
- 3. Add "Name", "Computer name" and "Description",
  - → e.g. WaveNet\_Netwwork\_123; Computer\_BS21; communication node for the WaveNet radio network 123
- 4. Click on the "Config files" button
- 5. Ensure that the path links to the CommNode server's installation directory and click on the "OK" button.
- 6. Press "No" to reset the prompt and confirm your selection by clicking on "OK". *The three configuration XMLs (appcfg, msgcfg and netcfg) must be located directly in the CommNode server's installation directory.*
- 7. Click on the "Apply" button to save your settings.
- 8. Click on the "OK" button to close the prompt.
- 9. Click on the "Exit" button to close the dialogue.

#### 6.1.5 Setting up the network and importing into LSM

6.1.5.1 Adding the WaveNet configuration

If all requisites have been met, you can start to configure the network:

- ✓ LSM has been installed correctly and a network module is licensed.
- ✓ The CommNode server has been installed and the service launched.
- ✓ The CommNode server's configuration files have been created.
- ✓ The current version of WaveNet Manager has been installed.
- ✓ A communication node has been created in the LSM software.
- Initial programming of the locking device to be networked has been successfully completed.
- RouterNode2 can be reached via the network and you know its IP address.
- The programmed locking device features an installed LockNode and you know its chip ID.
- 1. Select "Network/WaveNet network" and press the "Launch" button to open WaveNet Manager.
- 2. Enter the password.
- 3. Right-click on "WaveNet\_xx\_x".
- 4. Initialize the RouterNode2 first, e.g. using the option "Add: IP or USB router".
  - → Follow the dialogue instructions and incorporate the RouterNode2 into your WaveNet radio network using its IP address.
- 5. Initialize the locking device's LockNode by right-clicking on the newly added RouterNode2 and select the "Search by chip ID" option.
  - → Follow the dialogue instructions and use the associated chip ID to assign the locking device or its LockNode to the RouterNode2.

- 6. Click on the "Save", "Exit" and "Yes" buttons one after another to close WaveNet Manager.
- 7. Import the new settings and assign them to the corresponding communication node.
- 6.1.5.2 Transmitting the WaveNet configuration

The new settings still need to be transmitted to the CommNode server:

- 1. Select "Network/Communication nodes".
- 2. Select the RouterNode2 from the list of connections and click on the "Transmit" button.
- 3. Click on the "Apply" button to save your settings.
- 4. Click on the "Exit" button to close the dialogue.
- 6.1.5.3 Assigning a locking device's LockNode

The initialized LockNode needs to be linked to a locking device. This is easiest to do using a collective command, particularly if there is more than one LockNode:

- 1. Select "Network/Collective commands/WaveNet nodes".
- 2. Select all LockNodes (*WNNode\_xxxx*) which have not been assigned yet. *Non-assigned LockNodes have no entry in the "Door" column.*
- 3. Click on the "Configure automatically" button.
  - → The automatic configuration will start immediately.
- 4. Click on the "Exit" button to close the dialogue.
- 6.1.5.4 Testing the WaveNet configuration

You can select "Right-click/Programme" to re-programme the locking device via the network at any time to test networking quickly. The network is working properly if programming is successful.

#### 6.2 Putting the DoorMonitoring locking cylinder into operation

This example shows what settings need to be made to set up a DoorMonitoring locking cylinder. You will find the prerequisites for this process in "*Creating a WaveNet radio network and incorporating a locking device* [ > 151]".

#### 6.2.1 Adding a DoorMonitoring locking cylinder

The DM locking cylinder must first be added and programmed correctly in LSM.

1. Select the "Add locking device" button to launch the dialogue for a new locking device.

- 2. Select "G2 DoorMonitoring cylinder" as the locking device type and add all other information as you wish.
- 3. Exit the dialogue to add the locking device to the matrix.
- 4. Double-click to open the locking device properties and select the "Configuration/Data" tab.
- 5. Make the settings for the locking device's target status as you wish.
- 6. Click on the "Monitoring configuration" button and make the following settings (as a minimum):
  - → Fastening screw sampling interval: e.g. 5 seconds. In this case, the door status is polled every 5 seconds.
  - → Number of turns in lock: e.g. 1 turn This setting is important to identify the bolt status correctly.
- 7. Save the settings and return to the matrix.
- 8. Use a suitable programming device to carry out initial programming.

#### 6.2.2 Incorporating a DoorMonitoring cylinder into the network

This is how you incorporate the DM cylinder into the WaveNet network:

- ✓ WaveNet Manager has already been set up.
- The router to which the new locking device is to be assigned is already set up and "online".
- ✓ A LockNode is correctly mounted on the DM locking cylinder and you know the chip ID.
- 1. Start WaveNet Manager.
- 2. Initialize the locking device's LockNode by right-clicking on the newly added router and select the "Search by chip ID" option.
  - → Follow the dialogue instructions and use the associated chip ID to assign the locking device or its LockNode to the RouterNode2.
- 3. Right-click on the newly added DM LockNode.
- 4. Activate the "I/O configuration" check box and click on the "OK" button.
- 5. Activate the "Send all events to I/O router" check box and click on the "OK" button.
- 6. Click on the "Save", "Exit" and "Yes" buttons one after another to close WaveNet Manager.
- 7. Import the new settings and assign them to the corresponding communication node.

#### 6.2.3 Transmitting the WaveNet configuration

The new settings still need to be transmitted to the CommNode server:

- 1. Select "Network/Communication nodes".
- 2. Select the RouterNode2 from the list of connections and click on the "Transmit" button.

- 3. Click on the "Apply" button to save your settings.
- 4. Click on the "Exit" button to close the dialogue.

#### 6.2.4 Assigning a locking device's LockNode

The initialized LockNode needs to be linked to a locking device. This is easiest to do using a collective command, particularly if there is more than one LockNode:

- 1. Select "Network/Collective commands/WaveNet nodes".
- 2. Select all LockNodes (*WNNode\_xxxx*) which have not been assigned yet. *Non-assigned LockNodes have no entry in the "Door" column.*
- 3. Click on the "Configure automatically" button.
  - $\mapsto$  The automatic configuration will start immediately.
- 4. Click on the "Exit" button to close the dialogue.

#### 6.2.5 Activating the locking device's input events

You need to make additional settings to ensure that door statuses are displayed correctly in the LSM software:

- 1. Selecting "Network/Collective commands/WaveNet nodes"
- 2. Select the DoorMonitoring cylinder *(or any locking cylinder which is to relay events).*
- 3. Click on the "Activate input events" button.
  - → Programming is started immediately.
- 4. Click on the "Exit" button as soon as all locking devices have been programmed.

#### 6.3 Setting up a RingCast

The description below tells you how to configure a RingCast. A RingCast allows a RouterNode2 input event to be relayed to other RouterNode2s in the same WaveNet radio network at the same time. In this example, an emergency release is to be implemented on locking devices. All connected locking devices should open as soon as a fire alarm system triggers Input 1 on a RouterNode2. Each locking device will then remain open until they receive an explicit remote opening command.

*Obviously, a RingCast can also be used to perform other tasks such a block lock function, remote opening and gunman attack function.* 

This example requires a configured WaveNet radio network with two RouterNode2s. A locking device is connected to each RouterNode2. All locking devices should be opened immediately as soon as Input 1 on a RouterNode2 is actuated briefly. This gives people access to all rooms, so that they can seek protection from fire or smoke.



# IMPORTANT

If RouterNode2s are networked using Ethernet, RingCast is only supported by models which were supplied from about 2017. A RouterNode2 tries to establish an Ethernet connection to another RouterNode2 but fails. It then tries to establish the new connection wirelessly. The radio communication range is up to 30 m. This depends on the surroundings, so it cannot be guaranteed.

### 6.3.1 Preparing RouterNode for RingCast



# IMPORTANT

#### Firmware dependent availability of RingCast for RouterNodes

RingCast support is firmware dependent (see ).

If necessary, update the firmware (see ).

Prepare the RouterNodes for the RingCast:

- ✓ In the Wavenet radio network, at least two different RingCast-capable RouterNodes are configured and "online" (see ).
- ✓ At least one locking device is assigned to each RouterNode of the planned RingCast. Both locking devices are "online".
- 1. Open the WaveNet Manager.
- 2. Right-click on the first RouterNode 2.
  - → Window "Administration" opens.

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- 3. Select the option 💿 I/O configuration.
- 4. Click on the button OK.
  - → Window "Administration" closes.
  - → Window "I/O configuration" opens.
- 5. Optional: For example, for ▼ Output 1 "Input receipt static", to be able to control a signal device during deactivation.
- 6. In the drop-down menu ▼ Input select the desired entry of the corresponding response (see ).
- 7. In the drop-down menu ▼ Delay [s] select the entry "RingCast".
- 8. Click on the button Select LN.

- 9. Check whether all required LockNodes are selected. (When the I/O configuration of the router is set up for the first time, all LockNodes are included.)
- 10. Select your protocol generation from the drop-down menu ▼ Protocol generation

# IMPORTANT

#### Protocol generation in the LSM

The log generation is displayed in the LSM in the locking system properties on the tab page [Name] in the area "Protocol generation".

- 11. Enter the locking system password.
- 12. Click on the OK button.
- 13. Make the same settings on the other RouterNodes 2 as well.

#### 6.3.2 Adding a RingCast



#### IMPORTANT

#### Recalculating the RingCast

If you replace or delete a RouterNode in the RingCast or change its RingCast-relevant IO configuration, the RingCast is automatically recalculated after saving the changes and confirming the request.

- ✓ WaveNet Manager open (see Start the WaveNet Manager).
- ✓ RouterNodes and LockNodes connected to power supply.
- ✓ Imported RouterNodes and LockNodes into WaveNet topology (see).
- ✓ RouterNodes prepared for RingCast (see Preparing RouterNode for RingCast [▶ 157]).
- 1. Right-click on the WaveNet entry in which you want to create a RingCast.
  - └→ Window "Administration" opens.

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	Records.

- 2. Select the option RingCast.
- 3. Click on the button OK .
  - └→ Window "Administration" closes.
  - → Window "Edit radio domains" opens.

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4. In the drop-down menu ▼ Select domain select an entry, for which, at ▼ Delay [s] you have selected the "RingCast".



 In the field "selected routers" all RouterNode2 are shown, from which in this entry in ▼ Delay [s] you have selected the entry "RingCast" (=Domain).



- 5. Click on the button Save.
- 6. Click on the button Exit.
  - └→ Window "Edit radio domains" closes.
  - └→ Window "WaveNetManager" opens.

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- 7. Click on the button Yes.
  - → Window "WaveNetManager" closes.
  - └→ Changes will be updated.
- → The RingCast is created and is visible in the WaveNet Manager after a brief period of time.
- ⊡----- RingCast

⊡..... Input1(0)

- BN\_ER (0x0006\_0x0021; 89003644)
  - BN\_ER (0x000E\_0x0041; 0002A8B2)

\_\_\_\_\_ RN\_ER (0x0006\_0x0021; 89003644) ###

The settings have already been written to RouterNode2. Save the new settings and exit the WaveNet Manager.

### 6.3.3 RingCast function test

The settings made are effective immediately. The RingCast has no self-test function.



### WARNING

#### Impairment or failure of protective functions due to changed conditions

The activation of the protection functions in RingCast is based on wireless connections and Ethernet connections. Especially wireless connections can be affected by changing environmental conditions (). This also influences the activation of the protective functions in the RingCast; and the safety of persons and property, which, for instance, are additionally protected by the protective functions in the RingCast, may be at risk.

- 1. Test the protective functions at least once a month (see *RingCast function test [* 159]).
- 2. If necessary, also observe other directives or ordinances that are relevant for your locking system.



# WARNING

#### Changing the sequence of emergency functions due to malfunctions

SimonsVoss and "Made in Germany" stand for maximum safety and reliability. In individual cases, however, malfunctions of your equipment cannot be ruled out. This may jeopardise the safety of persons and property that are additionally protected by the protective functions in the RingCast.

- 1. Test your devices at least once a month (see ).
- 2. Test the protective functions at least once a month (see *RingCast function test* [+ 159]).

Switch the corresponding input on the initiator and check:

- whether the locking devices are responding as required (see also ).
- whether the output set on the RouterNode indicates the acknowledgement as required by switching (see also ).



# IMPORTANT

#### Permanent emergency opening

A fire can damage the input cable or other parts. This would cause the locking devices to close again even though there is a fire. Persons could be locked up in the fire zone and rescue units could be prevented from entering.

Therefore, all locking devices stay in the emergency opening state (and thus passable) until an explicit remote opening command closes the lock-ing devices again.

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#### Test with central output router

#### IMPORTANT

#### Central output router in RingCast with R/CR router nodes

The central output router receives the input acknowledgement of the participating router nodes exclusively via an Ethernet connection. The central output router therefore ignores the status of router nodes that are not Ethernet router nodes (.ER). If you are using the central output router and your RingCast also contains router nodes without an Ethernet interface, the central output router's input acknowledgement only means that all locking devices assigned to an Ethernet router node have received the command.

Check the status of other router nodes (R/CR) independently of the central output router manually (see and or ).

The use of a central output router (see ) simplifies the testing of the RingCast considerably. Switch the corresponding input on the initiator and check whether the central output router issues an input acknowledgement or switches the corresponding output. If the output switches, then all locking devices have received the command. If the output does not switch, check which router nodes have caused problems:

- ✓ WaveNet Manager open (see Start the WaveNet Manager).
- 1. Right-click on the entry of the RingCast you want to test.
- 2. In the drop-down menu ▼ Select domain select the input, whose RingCast you would like to test.
  - → Window "Edit radio domains" opens.



- 3. Click on the button Status.
- $\mapsto$  RingCast is being tested.

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WaveNetManager	×	🛦	-
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	The RingCast could not be com- pleted. Possible causes (see also ):
	• One or more router nodes did not receive the data packet.
	<ul> <li>One or more RouterNodes have not reached one or more LockNodes.</li> </ul>
The RingCast was able to address all locking devices.	<ul> <li>Ethernet connection to one or more RouterNodes is interrupted. The RouterNodes could have received the data packet remotely, but could no longer return their input acknowledgements due to the interrupted Ethernet connection.</li> </ul>
	1. Check the availability of the named RouterNodes (see and ).
	2. Check the accessibility of the LockNodes (see and ).
	3. Check the last responses of the LockNodes (see )).

#### 6.4 Setting up event management

Networking locking devices via a RouterNode2 brings many advantages. One decisive advantage is the permanent communication between the RouterNode2 and the locking device.

In this example, a pre-defined email is to be sent from the LSM software as soon as a transponder is activated on a specified locking device at night.

The following prerequisites need to be fulfilled for this requirement:

- A WaveNet radio network is set up as in the example *Creating a WaveNet radio network and incorporating a locking device* [+ 151].
- Forwarding of locking device events has also been activated as in Activating the locking device's input events [> 156].

#### 6.4.1 Setting up an email server

A rudimentary email client is set up to send emails in the LSM software. An own email account which supports SMTP format is required to forward emails.

- 1. Select "Network/Email notifications"
- 2. Click on the "Email" button.

- 3. Enter all SMTP settings for your email provider.
- 4. Click on the "OK" button.
- 5. Click on the "OK" button.

#### 6.4.2 Setting up Task services

- 1. Select "Network/Task manager".
- 2. Select your communication node under Task services.
- 3. Click on the "Apply" button.
- 4. Click on the "Finish" button.

#### 6.4.3 Forwarding input events via the RouterNode2

If events *(e.g. a transponder makes a booking on a networked locking device)* are to be forwarded to the CommNode server via the RouterNode2, this function needs to be activated in the router's I/O configuration.

- 1. Open WaveNet Manager.
- 2. Right-click the router and select "I/O configuration".
- 3. Select the "All LN events" option in the "Report events to management system" drop-down list.
- 4. Press OK to confirm and exit WaveNet Manager.

#### 6.4.4 Forward input events via the SREL3 ADV system

The SREL3 ADV system allows input entries to be forwarded to LSM.

6.4.4.1 Evaluating controller inputs

The digital inputs on the SREL3 ADV system controller can be forwarded to LSM, where they may trigger actions.

#### Adding an event

If you wish to use LSM or SmartSurveil (see SmartSurveil) to evaluate an input, you first need to create the corresponding input as an event in LSM. Only then will changes to the input also be saved in the LSM database.

- LSM open.
- ✓ SREL3 ADV System added to the matrix.
- 1. Use | Network | to select the Event manager item.
  - → The "Network event manager" window will open.
- 2. Click on the New button.
  - → The "New Event" window will open.

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New Event			×
Name: Description: Message: Type:	Input Event	Lock. units: Select	
	Activated		
Associated actions:		Alam lev.	
New OK	Configure times	Cancel	

- 3. Enter a suitable name for the event.
- 4. Enter an optional description for the event.
- 5. Enter an optional message.
- 6. Open the **▼**Type drop-down menu.
- 7. Select the "Input Event" item.

Input Event	-
Door Monitoring Event	
Entry	
Input Event	
Input event analogue	
Key combination	
Time interval	

- 8. Click on the Configure event button.
  - → The "Input Event" window will open.

Input Event	×
A lock node's inputs should be taken into account as follows:	
Select input	1
Input 1	
C Input 2	
C Input 3	
Input changes	]
from 0 to 1	
C from 1 to 0	
C both	
OK Cancel	

- 9. Select the required input in the "Select input" section.
- 10. Select the status change that the event should trigger in the "Input changes" section.
- 11. Click on the OK button.
- 12. Click on the Select button to assign a locking device to the event.
  - → The "Administration" window will open.
- 13. Highlight one or more locking devices.
- 14. Click on the 🛛 Add button.
- 15. Click on the OK button.
  - → Window closes.
  - $\vdash$  Locking device is assigned to the event.
- 16. You can use the New or Add button to assign an action if you wish to configure an action.
- 17. Click on the OK button.
  - → Window closes.
  - ► Event is displayed in the "Events" section.
- 18. Click on the Exit button.
  - → Window closes.
- └→ Input is added as an event and triggers an action.

#### 6.4.5 Creating a response

First create a response. This response can be selected at a later stage if a specific scenario arises.

- 1. Select "Network/Event manager".
- 2. Click on the "New" button under "Responses" on the right-hand side.
- 3. Add a name and description for the response.

- 4. Select "Email" as the type.
- 5. Click on the "Configure response" button.
- 6. Click on the "New" button.
- 7. Enter the recipient's email address, a subject and a message body. *You can us the "Test" button to test the email configuration immediately.*
- 8. Exit the dialogue by pressing the "OK" button three times. Press the "Exit" to return to the matrix.

#### 6.4.6 Creating an event

Once a response has been created, you can then go on to create an event.

- 1. Select "Network/Event manager".
- 2. Click on the "New" button under "Events" on the left-hand side.
- 3. Add a name and description for the response.
- 4. Select "Access" as the type.
- 5. Click on the "Configure event" button.
- 6. Activate the "Respond to all transponders" check box. *The event is to occur every time that a transponder is activated. Alternatively, you can restrict the event to a single transponder.*
- 7. You can adjust the action further in the "Time setting" section.
- 8. Click on the "OK" button.
- 9. Click on the "Select" button in the "Locking devices" section.
- 10. Add all locking devices which are to trigger the event when the transponder is activated and press OK to confirm your selection.
- 11. Click on the "Add" button in the "Associated actions" section.
- 12. Add the previously created response.
- 13. Click on the "Configure time" button.
- 14. Enter the night hour times. The event only becomes active within the pre-determined time frame here.
- 15. Exit the dialogue by pressing the "OK" button three times. Press the "Exit" to return to the matrix.

#### 6.5 Managing the virtual network (VN)

Authorisations can also be quickly and conveniently modified and adjusted over a virtual network (VN network) without a full network. The authorisation for locking devices (and block IDs for blocked identification media) is saved directly to the ID medium and forwarded to locking devices each time a locking device is activated. In a virtual network, it is important to update all ID media at a gateway at regular intervals.

The main set-up of a virtual network is shown in this example.

#### 6.5.1 Setting up a locking system

The "Virtual network" check box needs to be activated in an (exclusively) G2 locking system. A considerable programming requirement may arise if this setting is applied in an existing locking system.

#### 6.5.2 Setting up a VN service

- 1. Select "Network/VN service".
- 2. Select the VN server (e.g. communication node).
- 3. Enter the installation path to the VN server. *The VN server is installed in a separate folder in the main directory for an LSM Business installation.*
- 4. Click on the "Apply" button.
- 5. Click on the "Finish" button.

#### 6.5.3 Add components and set up the LSM software.

Before you begin with set-up, you need to make the key settings for operating a network in the LSM software and the RouterNode2 must be ready for use.

- Preparing the LSM software [> 151]
- Preparing hardware [> 152]
- Creating communication nodes [> 152]
- Setting up Task services [> 163]
- 1. Add the different ID media (e.g. transponders) and locking devices (e.g. active locking cylinders).
- 2. Implement initial programming of the added components.
- 3. Add a SmartRelay2 and authorise all ID media which are to receive new authorisations there at a later point in time.
  - → The "Gateway" check box must be activated in the tab in the SREL2 locking device properties.
- 4. Carry out initial programming for the SREL2 and ensure that it features a properly connected LockNode.
- 5. Set up the RouterNode2 using WaveNet Manager and assign the gateway (or the SREL2) to it.
  - → See Setting up the network and importing into LSM [ > 153].

#### 6.5.4 Exporting authorisation changes

Exporting authorisation changes only works if at least one change has been made. Withdraw authorisation for Locking Cylinder 1 from Transponder 1 to test, for example.

- 1. Select "Programming/Virtual network/Export to Vnetwork".
- 2. Select all SREL2s to which you intend to export/send data.

- 3. Check that you have selected the right locking system.
- 4. Clicking on the "Prepare" button
  - $\rightarrow$  All changes which are to be exported will appear on the persons list.
- 5. Clicking on the "Export" button
  - → The export process starts. The changes are exported to the gateway.

The authorisation change is now stored ready at the gateway. There are now two scenarios:

- Transponder 1 logs onto the gateway. Locking Device 1 will later recognise that Transponder 1 is no longer authorised and refuse access.
- Another transponder (not Transponder 1) logs onto the gateway first and authorises itself for use on Locking Device 1. Locking Cylinder 1 is notified of Transponder 1's block ID.

With LSM 3.4 SP2 and higher, it is possible to "inform" any number of transponders one or two other transponder IDs which need to be deactivated.

#### Programme the TIDs to be disabled directly

The IDs to be disabled are saved on the transponder during the programming process.

- ✓ The transponder is physically available.
- ✓ The transponder's programming window is open.
- 1. Click on the "TIDs to deactivate" button.
  - → The list will open.
- 2. Activate one or two check marks in the TID column to save the TIDs to be deleted on the transponder.
- 3. Click on the OK button to confirm your input.
- 4. Continue with the programming.
- → The checked TIDs will be saved to the transponder as TIDs to delete.
   When the transponder is authenticated on one of the locking devices concerned, the TIDs to be deleted are deactivated at the locking device.

#### Add the TIDs to be blocked to the properties

The IDs to be deactivated are saved on the transponder either during the next programming process or the next booking on a gateway.

- ✓ The transponder's properties window is open.
- 1. Change to the "Configuration" tab.
- 2. Click on the "TIDs to deactivate" button.
  - └→ The list will open.
- 3. Activate one or two check marks in the TID column to save the TIDs to be deleted on the transponder.

- 4. Click on the OK button to confirm your input.
- → The checked TIDs are saved on the transponder either during the next programming process or the next booking on a gateway.

#### 6.5.5 Importing authorisation changes

Once the changes have been exported to the gateway, it is not possible to see which changes have already been collected from the gateway in the LSM software at first. They cannot be shown until an import is made.

- 1. Select "Programming/Virtual network/Import synchronisation".
  - → The import process will launch immediately.
- 2. Clicking on the "Finish" button

#### 6.5.6 Tips on VN

It is important for all transponders to make bookings at short, regular intervals to quickly distribute changes throughout the locking system "offline". Time budgets can be used for this purpose:

The "Dynamic time windows" options in the locking system properties offer the possibility of imposing a time budget on transponders. This obliges a person to load the ID medium on the gateway on a regular basis; otherwise, the ID medium is blocked for the locking system in question.

 Import and export of changes to a gateway can be automated. These settings can be made under "Network/VN service".

#### ATTENTION

#### WaveNet capacity utilisation due to import and export

If many changes are imported and exported at the same time, full use is made of the WaveNet's capacity. This may affect other functions which also use the WaveNet.

#### 6.6 Sabotage detection

From LSM 3.4 SP2 you can recognise sabotage attempts on the SmartHandle AX and on the SmartRelais 3 Advanced. When the enclosure used there is opened, the electronics detect this and send the information to LSM. If you want to evaluate the information, you can set up an event for it and respond to it (see *Setting up event management* [+ 162]).

# 6.7 DoorMonitoring (SmartHandle) - Door handle events

From LSM 3.4 SP2 onwards, you can see the state of the handle on the SmartHandle AX. When the trigger is pressed, the electronics detect this and send the information to LSM. If you want to evaluate the information, you can set up an event for it and then respond to it (see (*Setting up event management* [ $\rightarrow$  162]).

# 7 Glossary & abbreviations

Individual terms are explained in more detail below. The explanations are easy to understand, but may not contain all details.

Term	Abbreviation	Explanation
Advantage Database Server	ADS server	Essential server service required to operate LSM Business and Professional.
CSV file		Standard file format for importing and exporting data, such as em- ployee lists and locking systems.
DoorMonitoring	DM	Option for locking components which reports key door status prop- erties, such as 'door closed' and 'double locked', to the LSM software.
Freeze mode		When batteries reach a critical level, locking devices switch to freeze mode to allow the door to be opened one more time.
Protocol generation G1	Gl	First protocol generation allowing locking devices and ID media to communicate.
Protocol generation G2	G2	Second protocol generation, which adds a number of convenience func- tions.
Lightweight Directory Access Protocol	LDAP	Network protocol to access and change information. LDAP can be used to upload employee data dir- ectly into the LSM software, for ex- ample.
Locking Data Base Software	LDB	The preceding version of the LSM software.
Lock ID	LID	Identifies the locking device within the locking system. (Can be com- pared to a car registration)
Local Operating Net- work	LON network	Local Operating Network (LON) is an older standard, which is/was mainly used for building automation.
Locking System Man- agement	LSM	Current software allowing flexible management of SimonsVoss locking components.

Term	Abbreviation	Explanation
Matrix		The matrix offers a clearly arranged view, showing which particular ID media are entitled to use specific locking devices.
MIFARE		MIFARE is a world standard for one of the most widely used card sys- tems. (Locking device is activated with 'passive cards')
Personal Digital As- sistant	PDA	Small computer roughly the size of a smartphone. A PDA can be used as a portable device to programme active G1 locking components.
Physical Hardware Identifier	PHI	The PHI number is imprinted on Si- monsVoss components and stored in its internal memory. This number is fixed and cannot be changed.
Profile cylinder	PC	A profile cylinder is the most widely used variety of security lock and a type of locking cylinder.
Router (CentralNode)		Special routers are used to address suitably equipped locking devices over the network.
SMART.SURVEIL		SMART.SURVEIL is an independent monitoring program. It can be run on computers without LSM software and requires a free user client. (From LSM 3.4 SP1)
Transponder ID	TID	Identifies the transponder within the locking system. (Can be compared to a car registration)
Virtual network	VN	A 'virtual network' can be used to enjoy a variety of advantages offered by networks without special routers.
Access Control	ZK	SimonsVoss components with an AC function log all accesses (or 'book- ings') in the locking system.

# 8 Help and other information

#### Information material/documents

You will find detailed information on operation and configuration and other documents under Informative material/Documents in the Download section on the SimonsVoss website (*https://www.simons-voss.com/en/downloads/documents.html*).

#### Software and drivers

You will find software and drivers in the Download section on the SimonsVoss website (*https://www.simons-voss.com/en/downloads/software-downloads.html*).

#### Declarations of conformity

You will find declarations of conformity for this product in the Certificate section on the SimonsVoss website (*https://www.simons-voss.com/en/certificates.html*).

#### Hotline

If you have any questions, the SimonsVoss Service Hotline will be happy to help you on +49 (0)89 99 228 333 (German fixed network; call charges vary depending on the operator).

#### Email

You may prefer to send us an email.

support@simons-voss.com

#### FAQs

You will find information and help for SimonsVoss products in the FAQ section on the SimonsVoss website (*https://faq.simons-voss.com/otrs/public.pl*).

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# This is SimonsVoss

SimonsVoss is a technology leader in digital locking systems.

The pioneer in wirelessly controlled, cable-free locking technology delivers system solutions with an extensive product range for SOHOs, SMEs, major companies and public institutions.

SimonsVoss locking systems unite intelligent functions, optimum quality and award-winning German-made design. As an innovative system provider, SimonsVoss attaches great importan-

ce to scalable systems, effective security, reliable components, high-performance software and simple operation.

Our commercial success lies in the courage to innovate, sustainable thinking and action, and heartfelt appreciation of employees and partners. With its headquarters in Unterföhring, near Munich, and its production site in Osterfeld, eastern Germany, the company employs around 300 staff in eight countries.

SimonsVoss is a company in the ALLEGION Group, a globally active network in the security sector. Allegion is represented in around 130 countries worldwide (www.allegion.com).

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