



# TMS Soft®

User manual

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EN

dormakaba 

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# 1 About this document

This manual describes the functions of TMS Soft® in version 5.1. Our products are constantly being improved and developed. Therefore, we reserve the right to make changes. The content of this manual corresponds to the state of affairs at the time of creation. The performance specifications described here, as well as other technical data and information on possible uses of our products, are not contractually guaranteed properties in the legal sense.

## 1.1 Conventions in this manual

This documentation uses the following conventions:

- User interface elements such as tab names, options, and input fields are in **bold**.
- Names of directories and files are in quotation marks.
- Square brackets [ ] indicate a variable that can be named differently depending on the system.

## 1.2 Symbols used



### TIPS AND RECOMMENDATIONS

This signal word indicates useful information for efficient and trouble-free operation.

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## 1.3 Legal notice

Please note that the company and brand names as well as product names mentioned are subject to trademark, patent or trademark protection. Microsoft Windows, Windows 7, Windows 8, and Windows 10 are registered trademarks of Microsoft Corporation. Reproduction, in whole or in part, is only permitted with written permission.

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## 1.4 License terms

The current license terms can be found in the TMS Soft® installation directory in the file "Lizenz.txt".

## 2 Parts included

The scope of delivery for TMS Soft® includes:

- USB stick with TMS software
- TMS programming cable (item no. 56353600)
- This manual

## 3 System requirements

### 3.1 Operating system and software

Microsoft® Windows® 7, 8, 8.1 or 10 with current service pack.

### 3.2 Hardware

- PC with Pentium III/1 GHz processor or higher
- at least 256 MB of RAM
- at least 60 MB of free hard disk space
- at least 1200 x 800 pixels graphics resolution
- a free serial interface (or a USB-RS232 adapter and a free USB port)
- USB port for the installation

## 4 Introduction to TMS Soft®

TMS Soft® is the software for parameterization, visualization and control of dormakaba door management systems (TMS).

TMS Soft® offers simple control for dormakaba door systems, such as TMS, SafeRoute®, SVP locks or automatic drives.

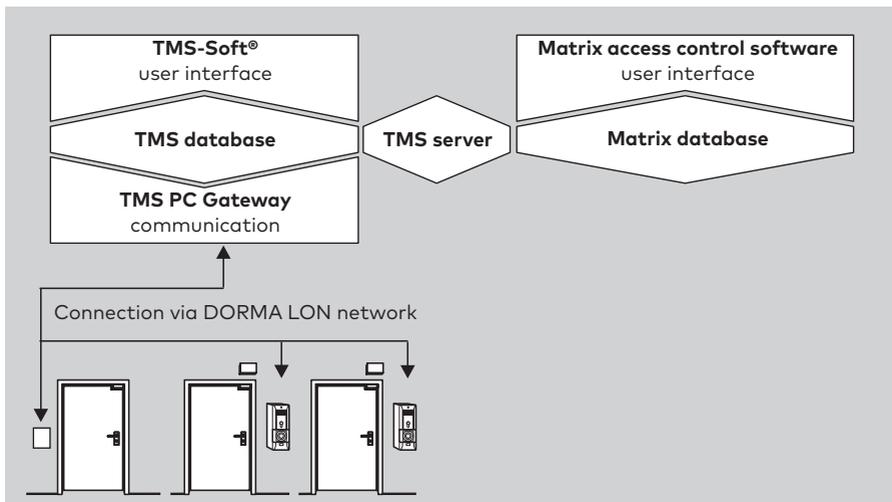
Connected doors can be controlled via the LON/LAN interfaces. Single doors can be controlled via the RS232 interface and possibly a USB-RS232 adapter.

TMS Soft® allows you to parameterize the functions of one or more door control centers via a central user interface, to change pre-settings and to display and monitor current status messages.

### 4.1 Interaction of the components

TMS Soft® consists of the components:

- TMS Soft® user interface
- TMS-PC gateway (Windows service)
- Database server with SQL database



Each system door is operated with a hardware component that includes a door control center, e.g. an operator terminal or a TMS control unit. The door control center's settings are managed in a database via the TMS Soft® user interface. The TMS-PC gateway transmits the changes to the individual door control centers. Status messages of the door control centers are visualized on the user interface.

## 4.2 TMS Soft® and the MATRIX access control software

The dormakaba MATRIX access control software's settings are managed in the access control software's database. The door data synchronization between TMS Soft® and dormakaba MATRIX takes place automatically via the TMS server.

# 5 Install TMS Soft®

## 5.1 Requirements

To install the software you need administrator rights. All users require write access to the directory "C:\Documents and Settings\AllUsers" because important settings are written to the INI file during operation.

## 5.2 Possible installation variants

TMS Soft is networkable. The database server (H2 or MySQL server) and TMS Soft® with integrated Windows service (TMS-PC gateway) can be installed separately as well as on the same computer.

**Installation variant A:**

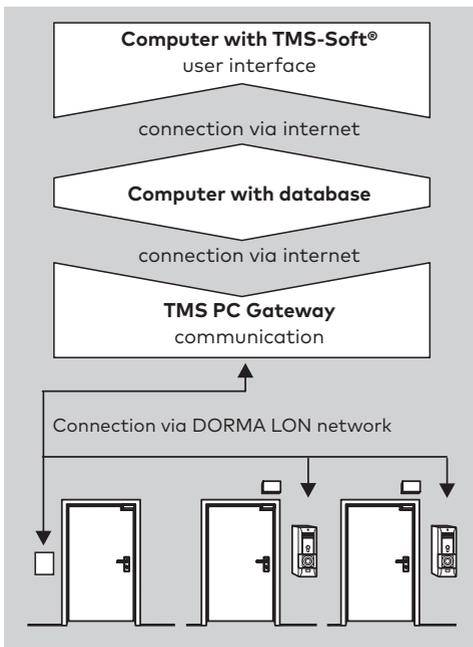
**Management of door control centers within a network**

The SQL database server, TMS Soft® and the communication (TMS-PC gateway) are installed separately or in combination on different, interconnected computers. In this variant it is possible to set up the TMS Soft® on several computers, for example.



**TIPS AND RECOMMENDATIONS**

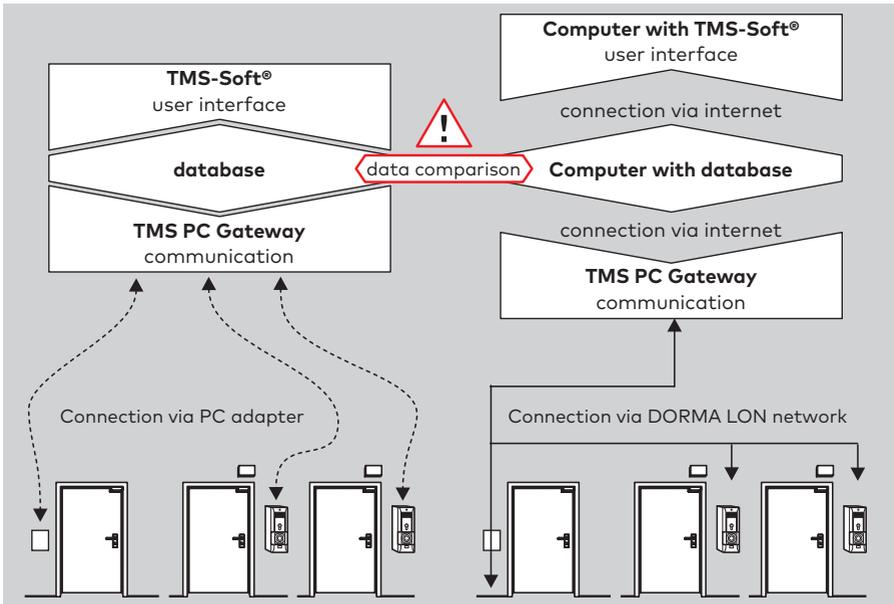
If TMS Soft® is installed within a network (installation variant A), it is absolutely necessary to start with the computer on which the database server (H2 or MySQL server) is to be installed. When installing TMS Soft®, the database's target path is queried.



**Installation variant B:**

**Management of individual, non-networked door control centers via a laptop**

All software components are installed on the same laptop. If the software components are set up on a stationary computer as well, a data comparison is necessary to ensure that the components are up-to-date.



**Installation variant C:**

**Mixed operation (network and single doors)**

The software components are installed both in the network and on a laptop (combination of installation variants A and B). Updating the components requires data synchronization. Data synchronization: Synchronize individual doors via the **Export/Import Devices** function in the Communication menu.

5.3 Run setup



**TIPS AND RECOMMENDATIONS**

Always carry out the installation – even of individual components – via the setup on the USB stick. dormakaba-specific configurations will not be set up otherwise.

The installation wizard checks the system requirements and guides you through the entire installation. If the system does not yet have "Open Database Connectivity ODBC V. 3.5.1" and "JAVA Runtime Environment V1.5 [or higher]", the missing components are set up at the end of the setup routine.

1. Insert the USB stick.
  - ▶ The installation starts automatically through Autostart. If the installation does not start automatically, run the file "Setup.exe" from the program folder on the USB stick.
2. Select the language and click on **Next**.

3. Read the license terms carefully and then click on **Next**.

4. Select the Set-up Type and click on **Next**.

**Standard:** The default settings are adopted.

Destination folder: "C:/Program/dormakaba/TMS-Soft V5.x.xxx"

Program folder: "TMS-Soft V5.x.xxx"

Database server: localhost

Database name: TMS\_DB\_5\_x\_xxx

**User defined:** You can make your own settings.

**Server:** The complete package with all components (Administration, Communication, DB) is installed.

**Client:** Only TMS Soft® (Administration) is installed. You need the name or IP address of the database server and the name of the database.

5. Click on **Install**.

▶ The installation process starts.

6. Finally click on **Finish**.

7. Remove the USB stick from the drive.

→ **TMS Soft® is installed.**

## 6 Configure the interfaces

### 6.1 Non-networked doors

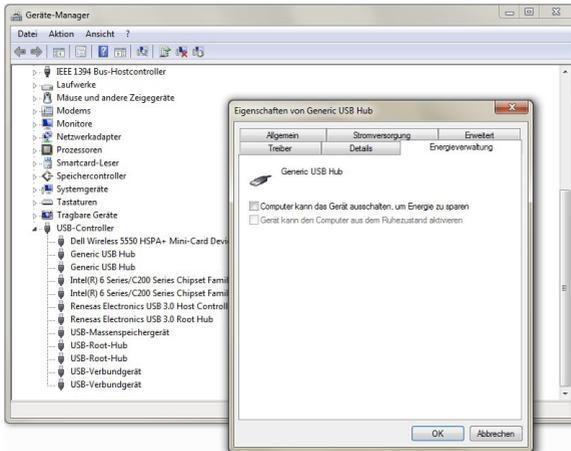
In order to transfer the programmed door data to the door control center, you need the TMS programming cable for the individual doors (item no. 56353600).

If the PC does not have an RS232 interface, a USB-RS232 converter is required (order no. 1900070402708).

To connect the TMS programming cable, please refer to the manual included with the programming cable.

### 6.2 Configuring the USB port (only when using the USB-RS232 adapter)

Always use the same USB port for communication between USB device and RS-232 converter, otherwise the COM address will change. For this the USB port must be configured once.



1. Find the **USB controller** to which the converter is connected in the Windows Device Manager.
2. Right-click on the **USB controller**. The **[USB-Controller] Properties** dialog box opens.
3. On the **Power Management** tab, clear the **Computer can turn off device** check box.
4. Click on **OK** and close the Device Manager.

### 6.2.1 Set the FIFO buffer for the COM interface (only with LON networking)

When using a "dormakaba Serial Gateway-32" LON interface, the FIFO buffer for the COM interface must be set.

1. In the Windows Control Panel, click on **System**.
2. In Windows Device Manager, find the appropriate COM connection.
3. Right-click on the COM connection. The **[COM] Properties** dialog box opens.
4. On the **Connection Settings** tab, click on **Advanced**.
5. Make the following settings:  
**Receive buffer:** Maximum  
**Send buffer:** Minimum

### 6.2.2 Set fixed IP network address (only with LAN networking)

For a LAN communication, the PC with the **TMS-PC gateway program** needs a fixed IP network address.

## 6.3 Networked doors

When using the following interfaces, there is a permanent connection from the PC to the door control center, which enables immediate data transfer:

- LON networking
- LAN networking

For how to connect the TMS LON gateway, please refer to the corresponding manual.

# 7 Starting the application for the first time



## TIPS AND RECOMMENDATIONS

Before starting for the first time, make sure that there is a connection between the computer (with TMS-computer gateway) and at least 1 door control center.

When you start TMS Soft® for the first time, the TMS-computer gateway service is started and registered in the database. The database server then always starts automatically when the computer is started up.

If the TMS Soft® installation components are distributed on several computers in the same network/bus system, the computers must start in the following order:

1. the computer with the database server
2. the computer with the TMS-computer gateway (for a simplified operation set the service's start type to "automatic")
3. the computer with the TMS Soft user interface

## 7.1 Start software and log on

The screenshot shows a login dialog box with the following fields and values:

- Name: Administrator
- Passwort: (empty)
- Datenbank: TMS\_DB\_5\_0\_003
- Datenbank Server: [localhost:3306/]

Buttons: Abbruch, OK

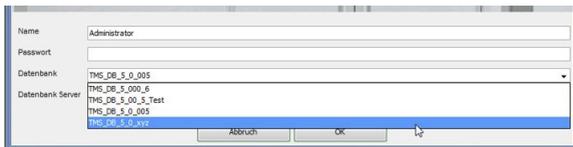
1. Start TMS Soft® by double-clicking on the program icon.
2. Enter user name and password. The password when first logging in with the user "Administrator" is "dorma".
3. Click on **OK**.

## 7.2 Create a new database



1. Select **File** menu.
2. Select **Create database**.
3. Enter name for the database.
4. Close TMS Soft®.

## 7.3 Use database

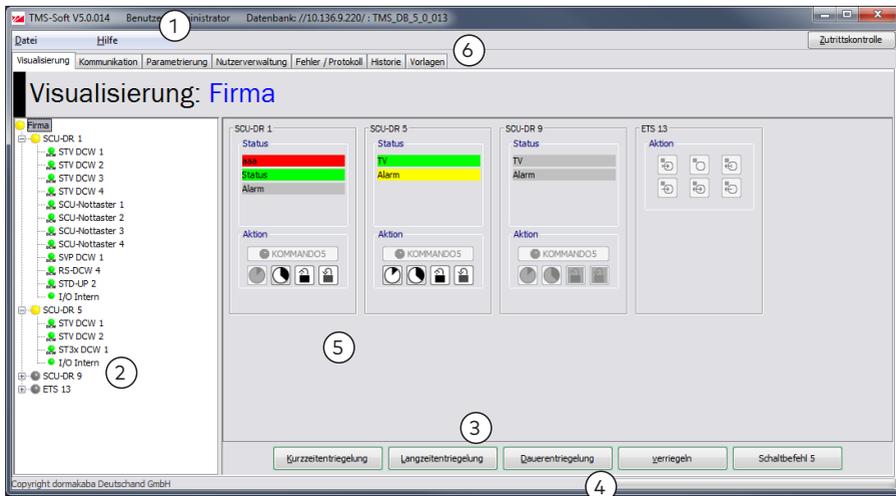


### TIPS AND RECOMMENDATIONS

The installation will install a default database. dormakaba recommends creating a specific database for each customer or project.

1. Restart TMS Soft® by double-clicking on the program icon.
2. Enter user name and password. The password when first logging in with the user "Administrator" is "dorma".
3. In the **Database** drop-down menu, select the desired database.
4. Click on **OK**.

# 8 User interface



TMS Soft®'s user interface is organized in tabs for easy access to all functions. The program window contains the following operating elements:

No.	Element	Function
1	Menu bar	Access to database, general program settings and help
2	Directory tree	Representation of the structure in the main tabs <b>Visualization</b> and <b>Communication</b> for direct access to the individual devices
3	Buttons	(depending on the main tab selected)
4	Status bar	Shows status with progress bar for searches and synchronization operations
5	Tabs	(depending on the main tab selected and the device types)
6	Main tab	<p><b>Visualization:</b> Devices' display and status</p> <hr/> <p><b>Communication:</b> TMS-PC gateway interfaces' configuration and monitor display</p> <hr/> <p><b>Parameterization:</b> Configuration of all parameters for the selected device</p> <hr/> <p><b>User administration:</b> Manage TMS Soft® users and their access rights</p> <hr/> <p><b>Error / Log:</b> Log of all events and errors in TMS Soft® that occurred during the current session</p> <hr/> <p><b>History:</b> Log of alarm conditions and events on the doors</p> <hr/> <p><b>Templates:</b> Manage templates for time-dependent door control</p>



#### TIPS AND RECOMMENDATIONS

At each point in the software you will receive a tooltip with a brief explanation of the function. Point your mouse over the corresponding field.

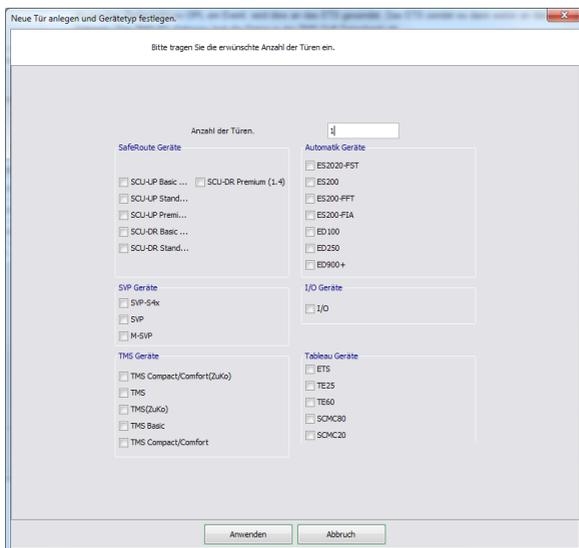
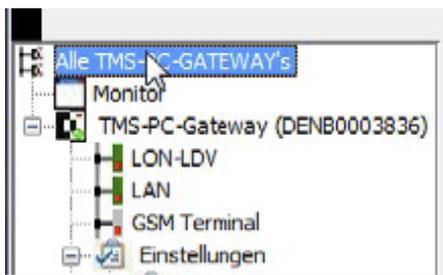
## 9 Initial contact between hardware and software

### 9.1 Create system doors in the database



#### TIPS AND RECOMMENDATIONS

Create differently equipped doors individually. For several doors with identical equipment, increase the number in the input field **Number of Doors**.



1. Switch to the main tab **Communication**.
2. In the directory tree, click on **All TMS-PC-GATEWAYS**.
3. In the main window, click on **New door**.
  - ▶ The dialog **Create New Door and Define Device Type** opens.
4. Enter the number of doors and select the device types used.
5. Click on **Apply**.



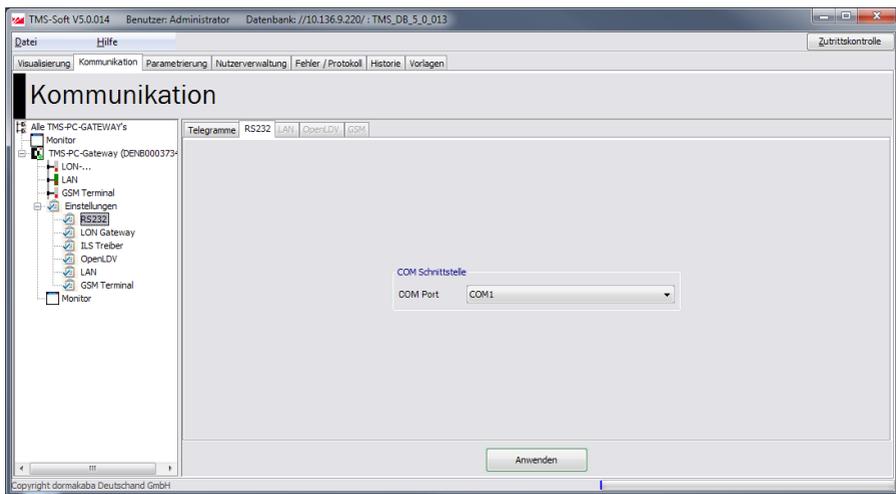
## TIPS AND RECOMMENDATIONS

If the TMS-PC gateway does not respond in the **Communication** tab, the TMS-PC gateway service must be registered again. To do this, click on **Install Service** under "Start" / "All Programs" / "dormakaba".

## 9.2 Address system doors and read parameters

### 9.2.1 Connect via serial interface

#### 9.2.1.1 Establish RS232 communication

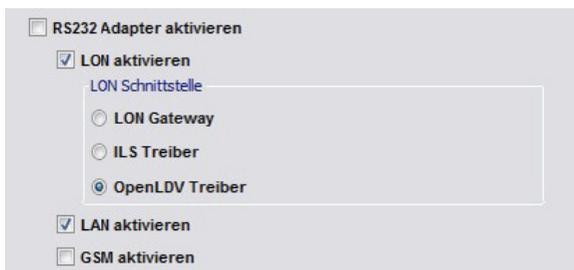
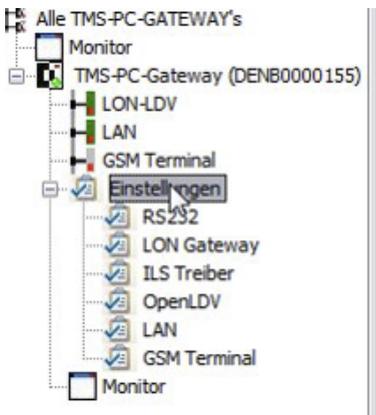


1. Connect the programming cable to the computer and the door control center (see programming cable manual).
2. In TMS Soft®, switch to the main **Communication** tab.
3. In the directory tree under **TMS-PC-GATEWAY** (Name = host name/computer name of the PC on which the gateway is installed), open the **Settings** node and click on **RS232**.
4. On the **RS232** tab, select the COM port.



## 9.2.2 Connect via LON

### 9.2.2.1 Set communication type



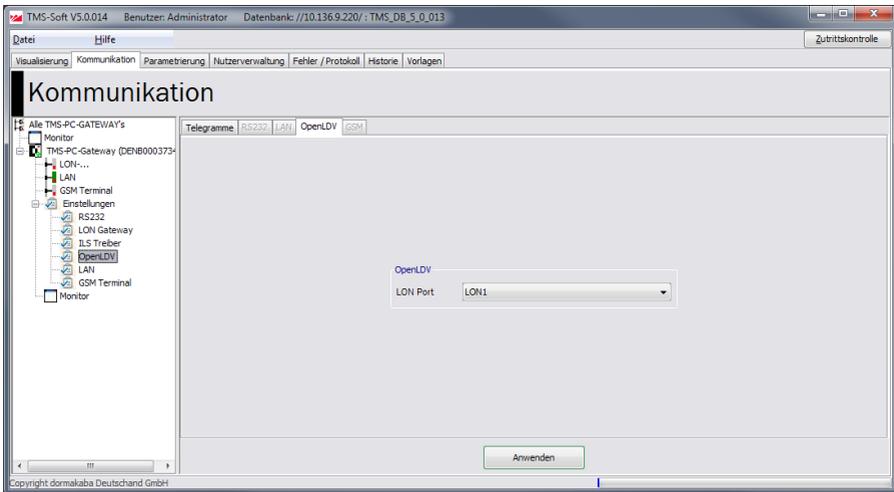
1. In TMS Soft®, switch to the main **Communication** tab.
2. In the directory tree under **TMS-PC-GATEWAY** (Name = host name/computer name of the PC on which the gateway is installed) click on the **Settings** node.
3. On the **Connection** tab, click on the **Enable LON** check box.
4. Enable the **OpenLDV** driver option.
5. Click on **Apply**.

## 9.2.2.2 Select LON interface



### TIPS AND RECOMMENDATIONS

Which LON port is used can be found in the Windows Control Panel. By default, this is LON1.



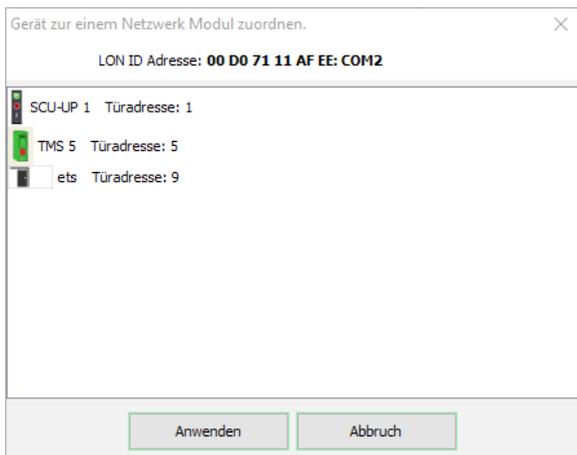
1. Click on **OpenLDV** in the directory tree under the **Settings** node.
2. On the **OpenLDV** tab, select the appropriate LON port.
3. Click on **Apply**.

## 9.2.3 Add LON device



1. In the directory tree under **TMS-PC-GATEWAY** (Name = host name/computer name of the PC on which the gateway is installed) click on **LON Gateway**.
2. In the main window, click on **LON ID**. The dialog **Set search for network IDs** opens.
3. Click on **Search**.
  - ▶ The device search starts.
4. On the LON module, press the **Service** button.

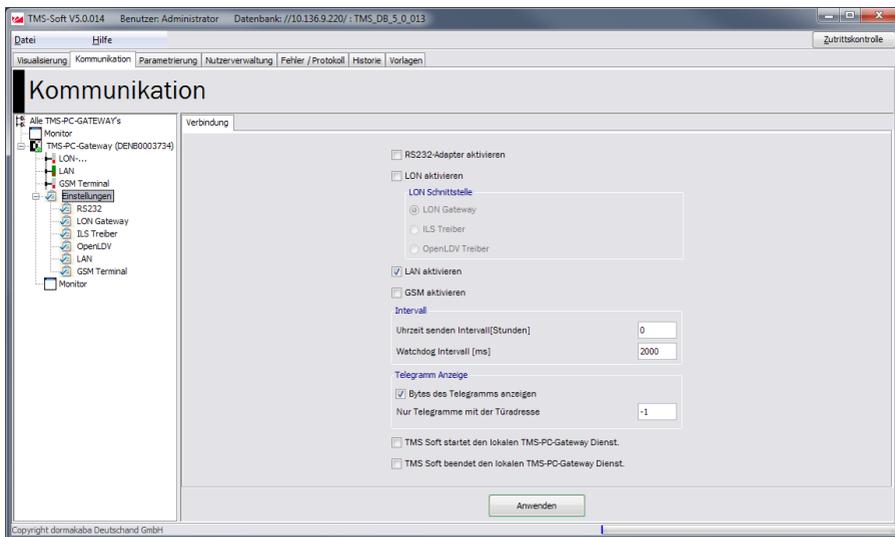
### 9.2.3.1 Assign LON device



1. In the main window, mark the door and click on **Assign device**.
  - ▶ The dialog **Assign device to a network module** opens.
2. Click on **Apply**.

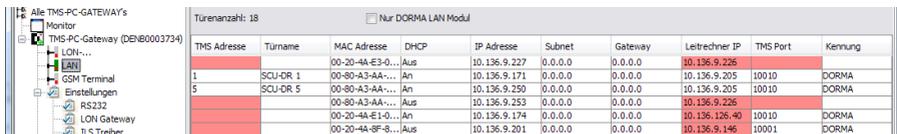
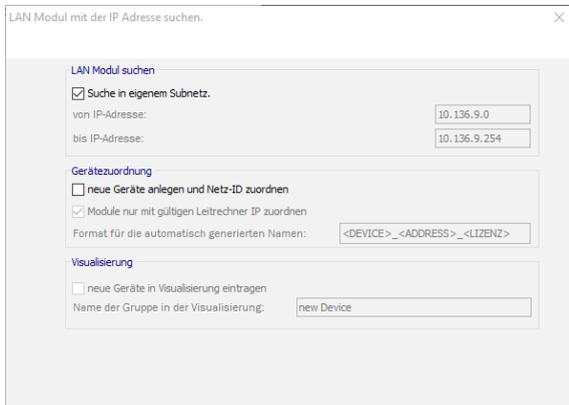
## 9.2.4 Connect via LAN

### 9.2.4.1 Set communication type



1. In TMS Soft®, switch to the main **Communication** tab.
2. In the directory tree under **TMS-PC-GATEWAY** (Name = host name/computer name of the PC on which the gateway is installed) click on the **Settings** node.
3. On the **Connection** tab, click on the **Enable LAN** check box.
4. Finally, click on **Apply**.

## 9.2.4.2 Search for LAN module



1. In the directory tree under **TMS-PC-GATEWAY** (Name = host name/computer name of the PC on which the gateway is installed) click on **LAN**.
2. In the main window, click on **Find LAN module**.
  - ▶ The **Find LAN Module with IP Address** dialog opens.
3. Click on **Search**.
  - ▶ The device search starts and the LAN components found are displayed in the main window.
4. Select component by MAC address.

## 9.2.4.3 Assign IP address

IP-Adressen und Parameter zuordnen.

MAC Adresse: **00-20-4A-8F-5F-C2**

IP-Adresse automatisch beziehen (DHCP AUTO-IP)

LAN Modul ist in gleichem Subnetz (Broadcast)

LAN Modul Adresse

IP-Adresse:

Subnet:

Gateway:

Leitrechner Adresse

Leitrechner IP:

TMS Protokoll

SCU Protokoll

PAS Protokoll

Sicherheit

Verschlüsselte Kommunikation (AES 128)

Anwenden Abbruch

1. In the main window, mark the door and click on **Assign IP**.
  - ▶ The dialog **Assign IP address and parameters** opens.
2. In the **LAN module address** area, enter the IP address specified by the facility operator.
  - ▶ The IP address is assigned.

If a DHCP server is present in the LAN network, the checkbox "Obtain IP address automatically" can be set.

  - ▶ The IP address is assigned automatically.
3. Select the communication protocol in the area **Host computer address**.
  - Use the TMS protocol for TMS, SVP, I/O, ED and ES systems.
  - Use the SCU protocol for SafeRoute® SCU and SCU-DR systems.
  - Use the PAS protocol for Physical Access Systems (PAS devices).
4. Click on **Apply**.

### 9.2.4.4 Assign LAN device



1. In the main window, mark the door and click on **Assign device**.
  - ▶ The dialog **Assign device to a network module** opens.
2. Click on **Apply**.

## 9.3 Load door data and parameterize the door



### TIPS AND RECOMMENDATIONS

When transferring the data from the TMS Soft®, the data in the door is overwritten. dormakaba recommends that the existing data be downloaded from the hardware before changing the data in the software.

### 9.3.1 Load door data

This step is only required if the door has already been parameterized or if it is not known whether a parameterization has already been made.

1. Change to the main tab **Parameterization**.
2. In the main window click on **Load door data**.
3. Finally, click on **Save**.

### 9.3.2 Parameterize door

1. Change to the main tab **Parameterization**.
2. Select door and set parameters.



### TIPS AND RECOMMENDATIONS

This manual describes the first steps in working with TMS Soft®. The help function in TMS Soft® contains a detailed description.

