

**Operating instructions
TSE Wireless Software Business +**



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1. General

With the administration software TSE Wireless Software Business you have the possibility to administrate up to 150 users and up to 100 doors through the PC software. Furthermore the software offers the possibility of:

- Access rights
- Control of access times via timers and/or calendars

For transmission it is necessary to have a connection between the Wireless USB stick and the computer via USB interface. The distance between PC and TSE can be up to 25m, depending on the environment.

Furthermore the software gives you the option of programming through network. For this it is necessary to use special USB-adapters for TCP/IP.

All transmission of data is bidirectional say from E-Key to lock unit or input unit, from input unit to the lock unit and from computer to the lock unit and the other way round. All communication of security relevant data is AES encrypted.

2. Install software

2.1. Installation in Windows XP

System basics: Windows XP in standard configuration, USB-port.

Installation of the driver and software:

Put in the CD, the drivers and the software install automatically. If not do the following: Open the explorer and double-click on

TSE Business.exe

in the folder of the CD. The installation routine of Windows starts. If the drivers are already at the computer the following window appears:

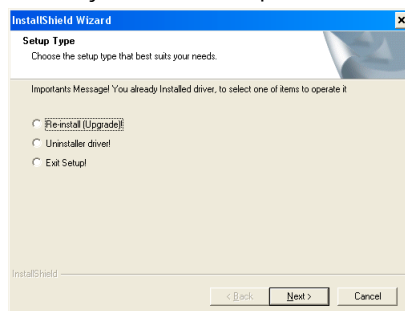


Fig.1: InstallShield Wizard

Here you can choose to Exit Setup and Re-install for finishing, so you can start the program, or to Uninstall drivers.

After rebooting you have to connect the USB stick to the USB-port of your computer to be recognized by the system.

2.2. Installation in Windows Vista

System basics: Windows Vista in standard configuration, USB-port.

Installation of the drivers and the software Treiber und der Software:

Attention: It is not allowed to have the USB adapter connected during the installation

Put in the CD; the software will be install automatically. If not do the following:

Open the explorer and double-click on

TSE Business.exe

in the folder of the CD. The installation routine of Windows starts.

Because the drivers are not installed automatically the installation has to be done by hand.

Please connect the USB adapter now. The following window appears: You have to click the marked positions in the numbered order

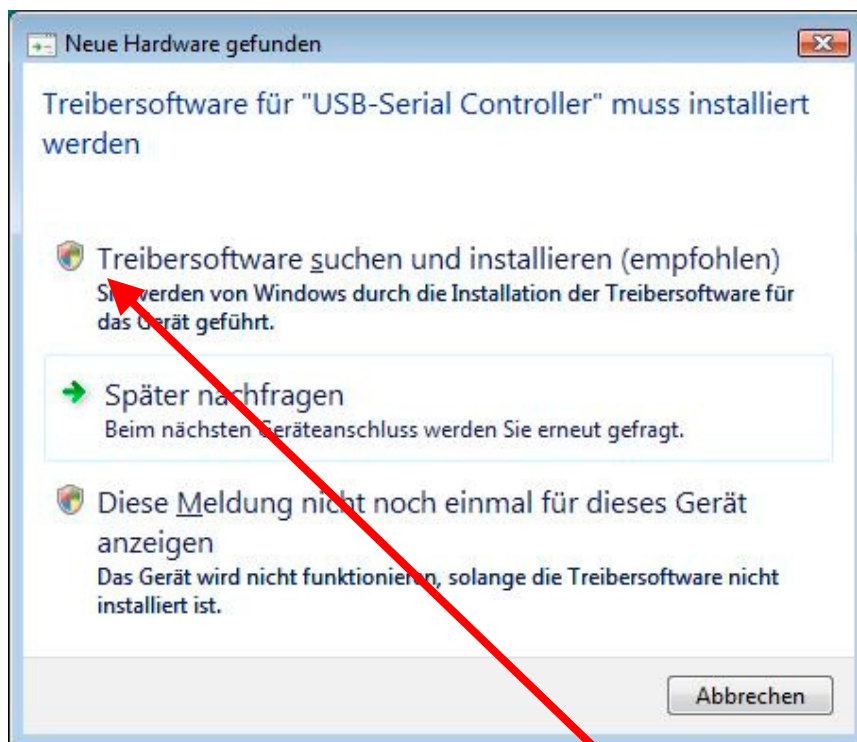


Fig. 2: Vista Installation 1

1

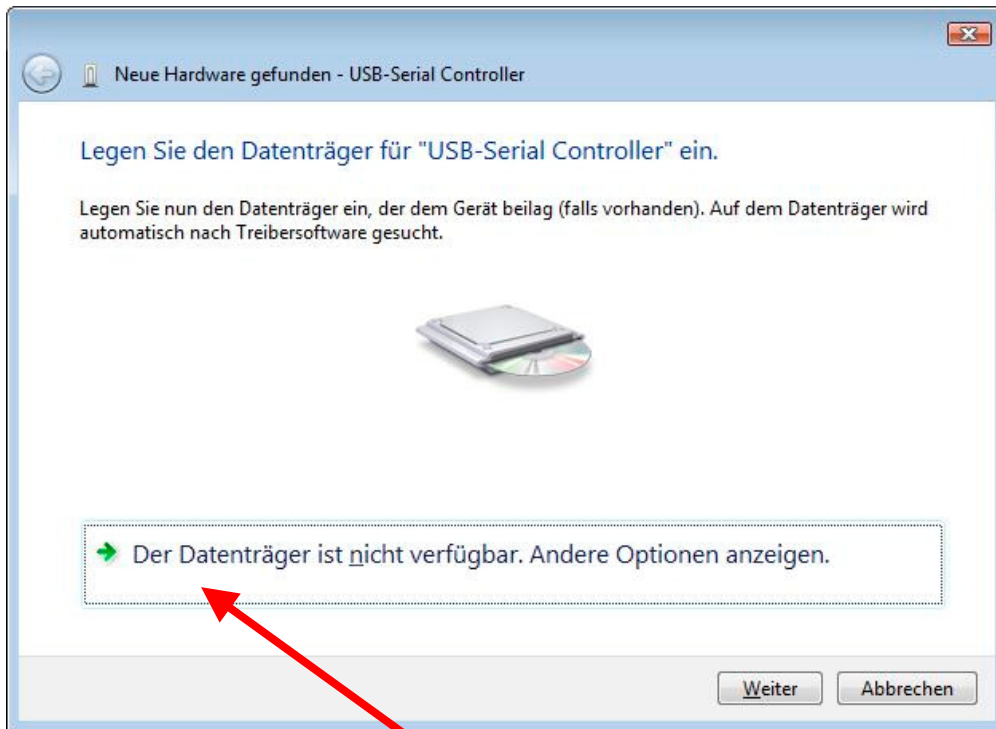


Fig. 3: Vista Installation 2

2

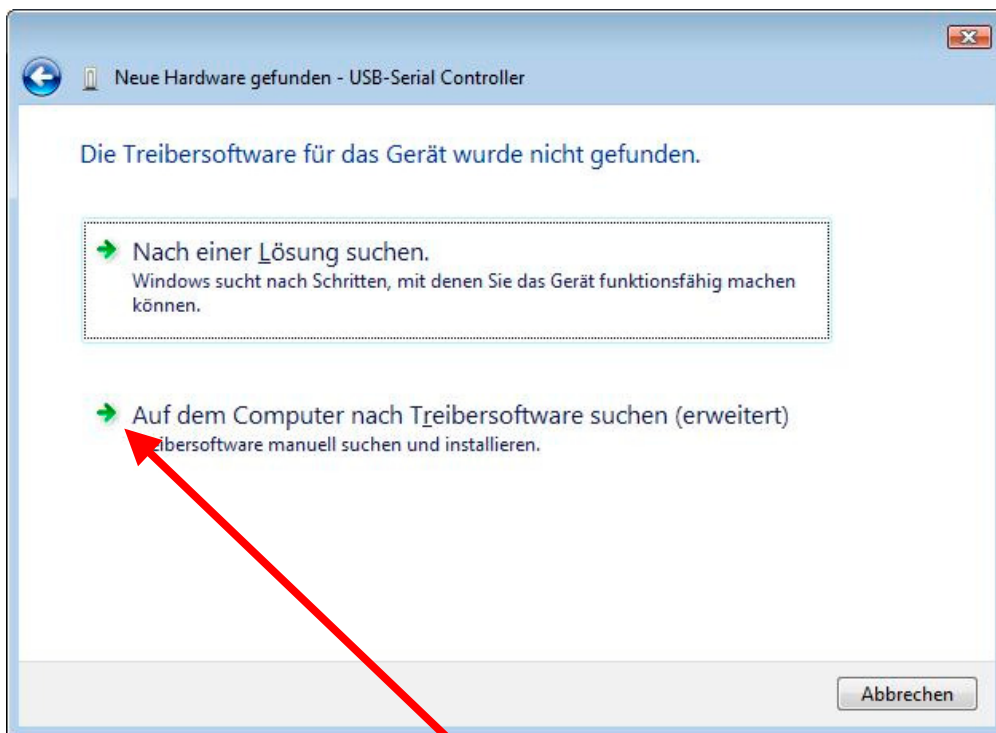


Fig. 4: Vista Installation 3

3

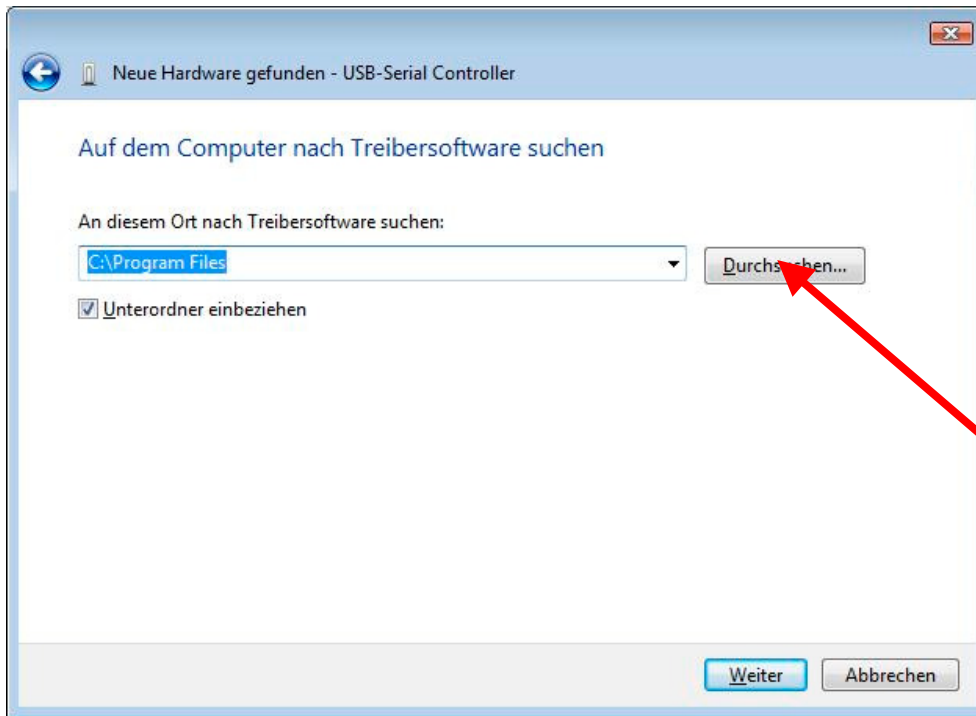


Fig. 5: Vista Installation 4

Please choose the installation path and choose the folder „USB_Driver“.

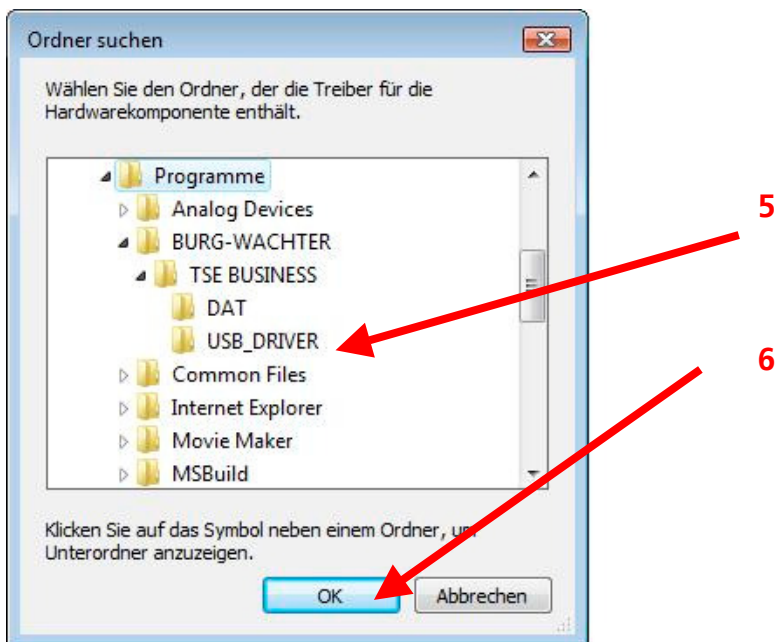


Fig. 6: Vista Installation 5

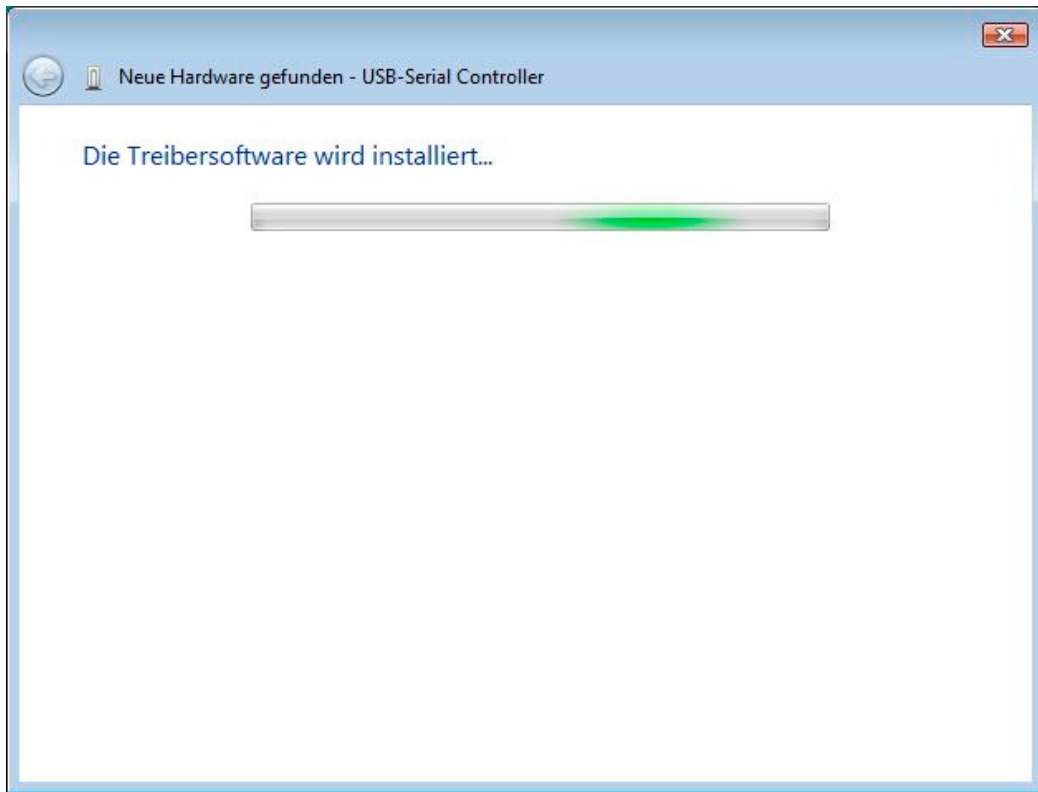


Fig. 7: Vista Installation 6

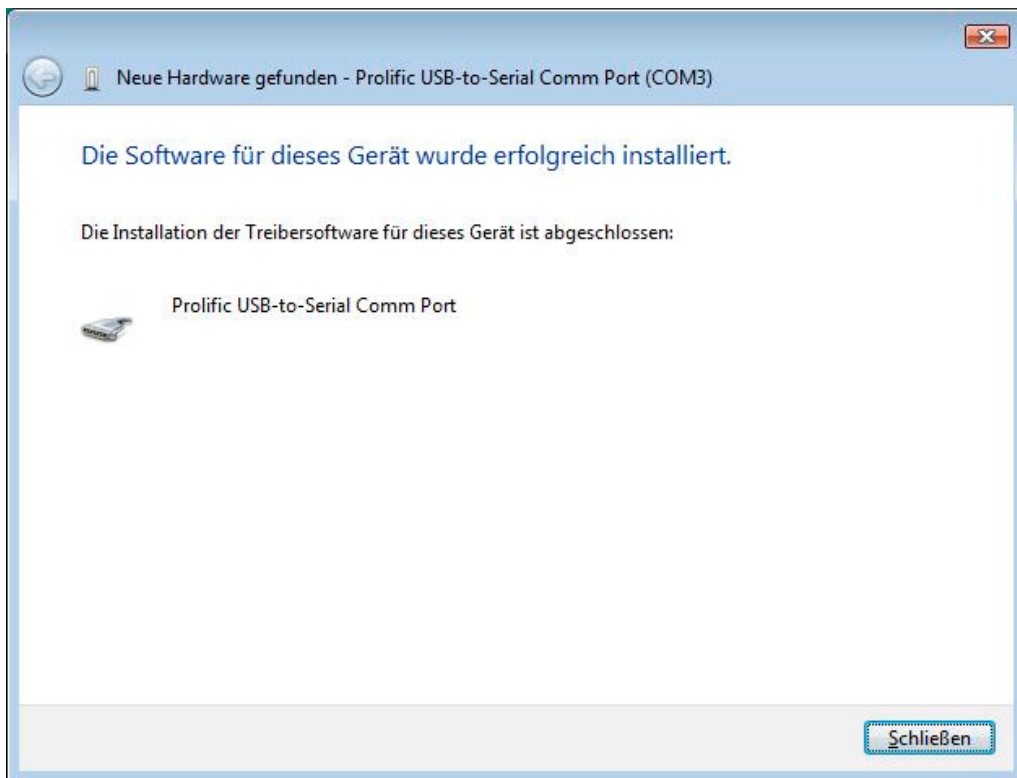


Fig. 8: Vista Installation 7

The installation is finished. You are now able to work with your program.

3. The program

After starting the program the following window appears:



Fig. 9: Start window

The green rectangular symbol on the left hand side of the window indicates that the USB stick is connected and valid. If the symbol is in red there is no connection and/or the stick is not valid.

To install the USB-adapter click on adjustments USB-port. Here you can install the USB-adapter manually or let the software identify it automatically. You can also edit the USB-adapter.

In the first case the tick under the point *“Automatic USB-port detection on”* should not be placed. Under system administration you must find the correct port and select it manually. All further locks will be programmed over this port.

If the tick under the point *“Automatic USB-port detection on”* is placed the software looks for all USB-adapters in the network and lists these.

The following will be shown:

- serial number
- name
- port-number
- status of each USB-adapter

You have the possibility to edit names of the USB-adapters.

The local programme station is an exception. This USB-adapter that is directly connected

to the PC-software must have the name "PROGSTATION". Over this adapter you can e.g. programme E-Key's.

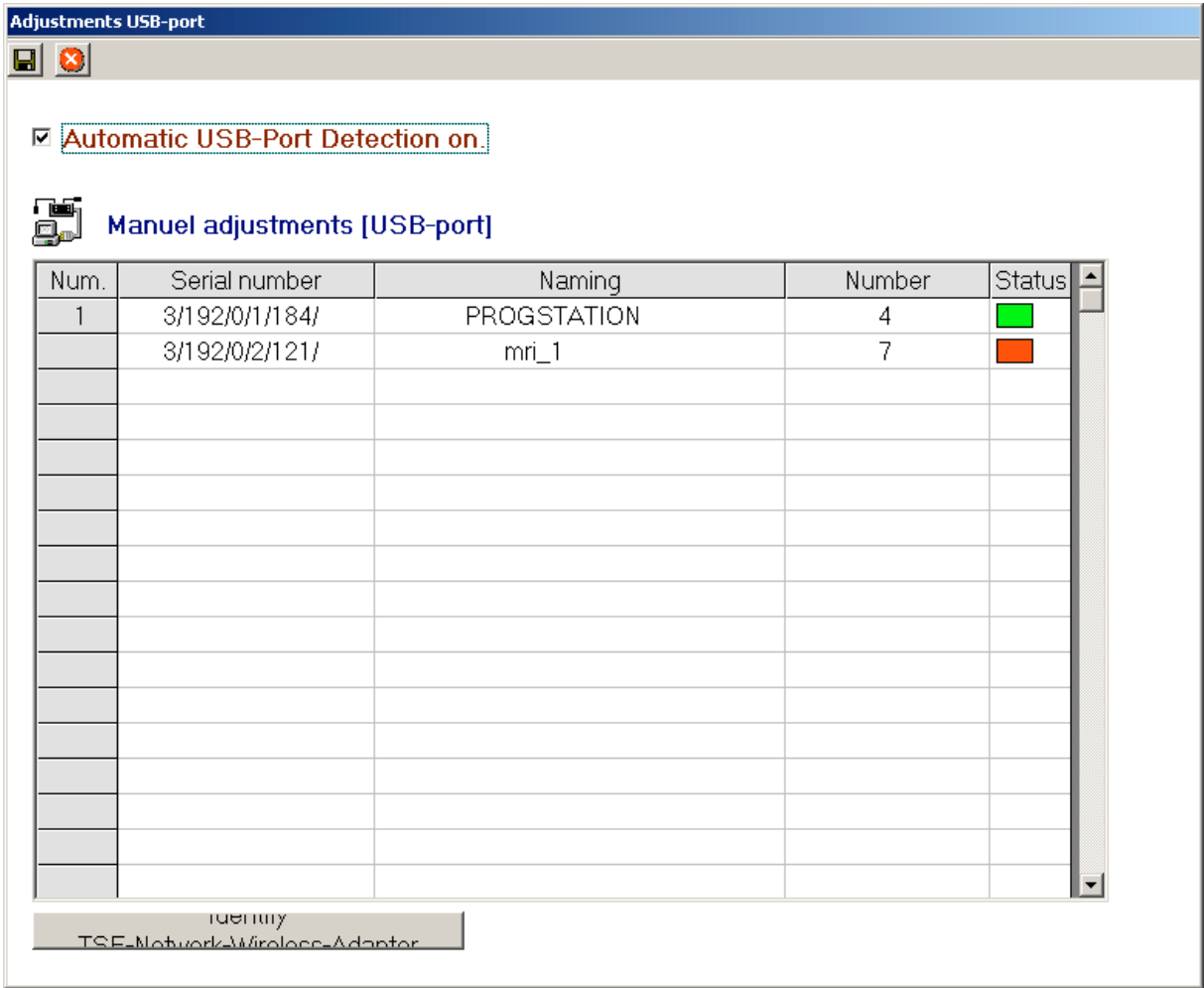


Fig. 10: USB-adapters

Any adjustments can be made in the menu bar

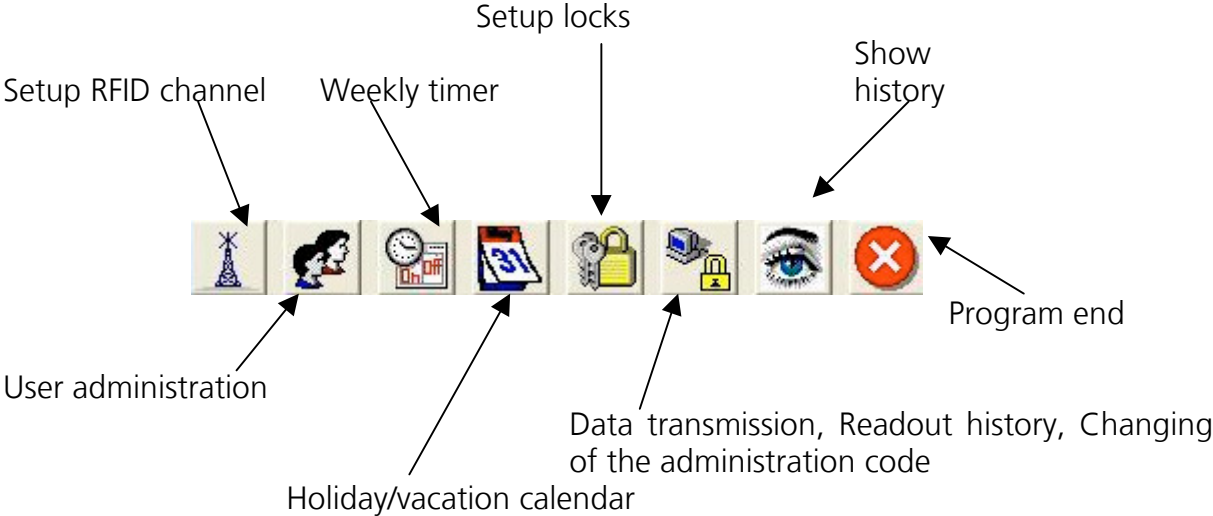


Fig. 11: menu bar

3.1. Setup RFID channel

In this menu the RFID channel for data transmission will be selected. **This is of elementary importance because the channel here selected sets the channel adjustment of the lock unit.** By pressing *Setup RFID channel* the following window appears.



Fig. 12: Setup RFID channel

In this window you can select the RFID channel for transmission. Works setting is always channel 1. If another channel is chosen, then the channel used for the data transmission changes automatically. The data transmission is then done on the new adjusted channel.

Notice:

Before programming the locks via software with the selected RFID channel you must change the channel on TSE 3004 via the keypad to the same one.

For this select under menu *Administrator* the sub-menu *Admin.setup RFID channel*. After entering the administrator-code the channel can be changed. The channel shown on the display of the keypad must be the same as in the software.

Otherwise the data transmission is impossible !

The RFID-channel in the E-Key's must also be changed, using the software (see capital *synchronise E-Key*)

Should any other devices (e.g. WLAN, Bluetooth, Bluetooth-Headsets etc.) disturb the data transmission, then change the RFID-channel to a third further channel.

Please note that all locks within the same locking system must be programmed on the same channel.

3.2. User administration

In this menu users will be administrated and configured. All user rights, opening code/ E-Keys, weekly timer and to which doors the user has access is determined here. In the horizontal bar with the numbers the name of the doors will be filled in. It will be terminated if the adjustments are done in the menu *Setup Locks*

Start *User Administration* with the icon  . You can edit all users here.

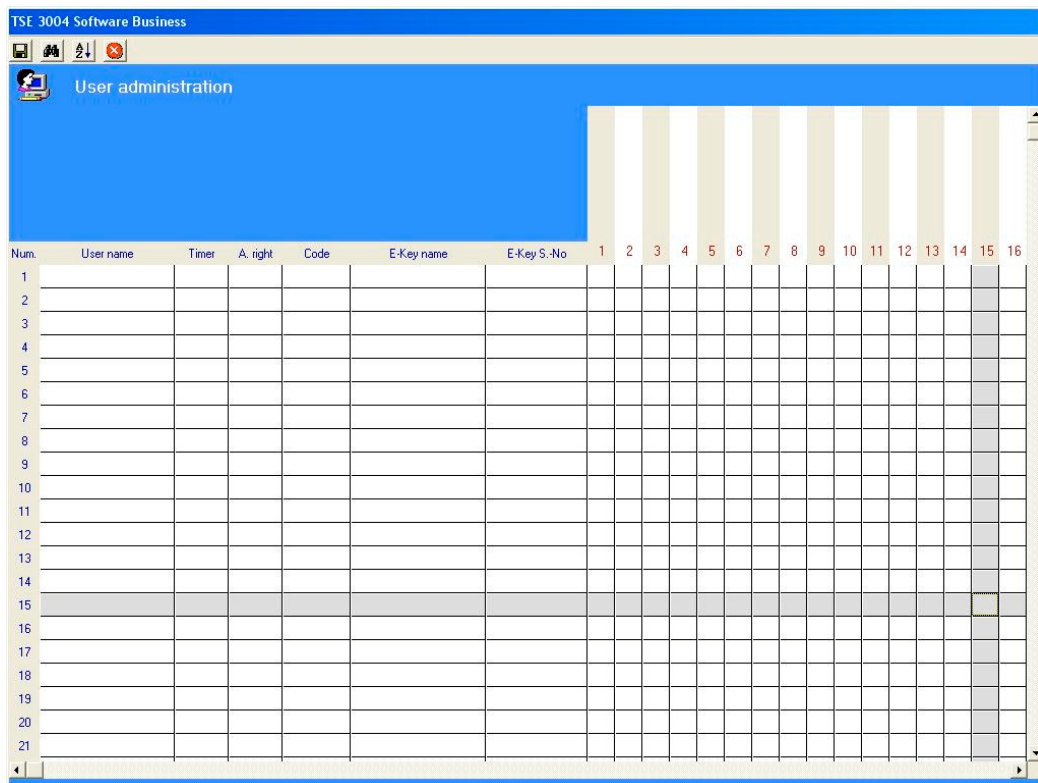



Fig. 13: User setup

The following table shows all input possibilities, for more detailed information see the individual chapters.

Choose field	Input/Choice
User name	Max. 16 digits. After writing the name, timer and user right will be initialized with initial values which may be changed. e.g.: David Smith
Timer	- (no Timer)
	A
	B
	Selection of user time sets
Access right	1 access authorisation alone
	1/2 access only allowed together with another person
	1/3 access only allowed together with two other persons
	0 access denied
	Admin. full access and programming authorisation
Opening code	6-digits number code e.g.: 547896 or
	6-digits characters code e.g.: summer (number code 786637)
E-Key name	max. 16 digits
E-Key serial-No	E-Key in programming mode (Press the key for approx.15sec, green light flashes three times and press ENTER to start data connection) For more detailed information please see chapter <i>E-Key access</i>

Fig. 14: Adjustments User setup

After settings are completed store all data with  .

For easier handling we have some special functions:

With the help of the cursor buttons it is possible to mark several fields at the same time (perhaps for selecting doors). Therefore the pointer has to be placed on the start field (don't click it). Then you have to use the shift and the cursor buttons. With pressing Enter the fields will be determined. If fields are already determined you can delete in the same way.

To cancel a line, column or a field the function will be found under the right mouse button.

3.3. Weekly timer

In this menu you have the opportunity to lay down access times. For this two categories of clock timer are available to you:

User timer - UT
(issuing of timers for the users)

Permanent timer - PT
(issuing of timers for the locks for the purpose of the permanently-open function)

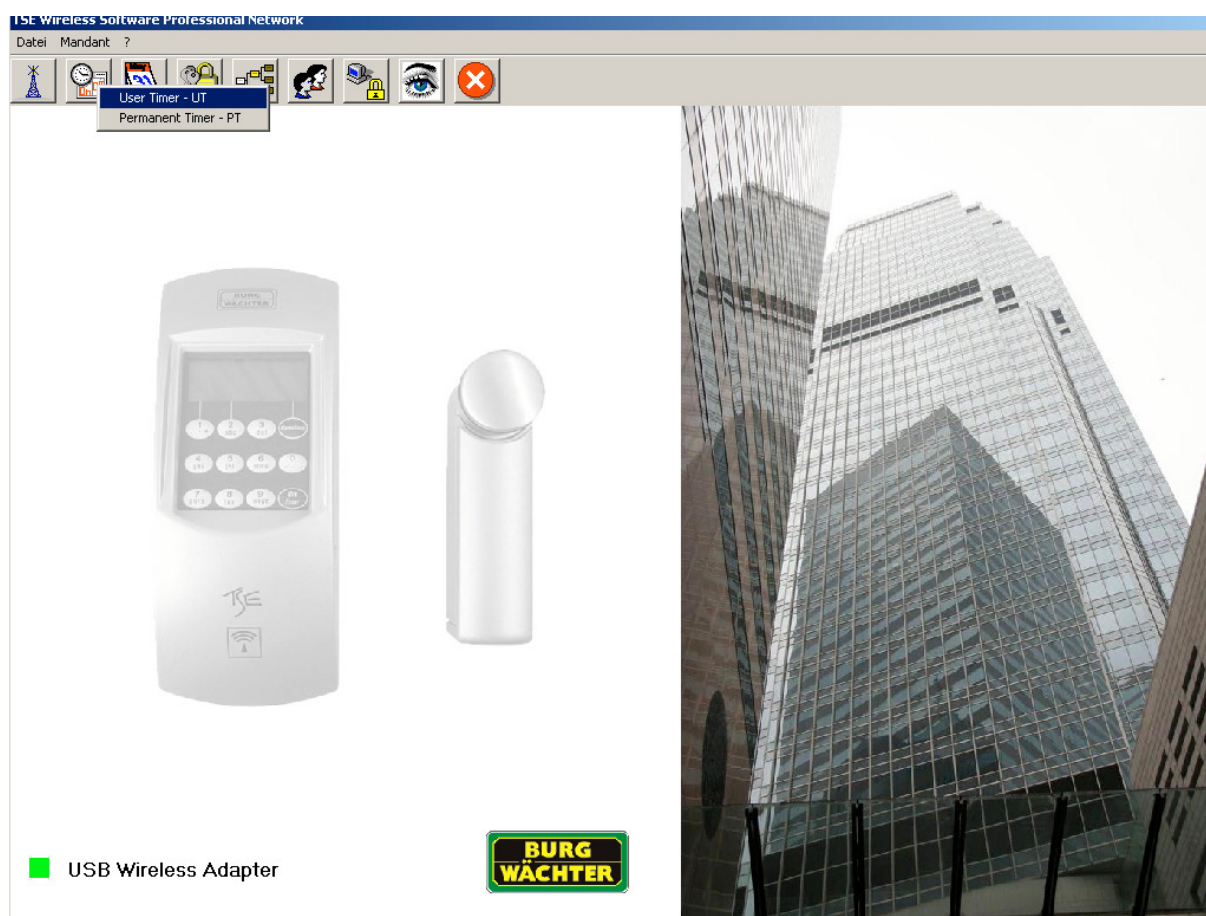


Fig. 15: User timer

User timers

In the *user timer* area 10 different time windows are available. Double clicking under the header *Day* opens a pop-up menu in which a selection of time periods (days) are suggested. Select the appropriate one with a double click. Then under *Begin* enter the time from which the person in question should have access. Then under *End* enter the time at which the access authorisation should end.

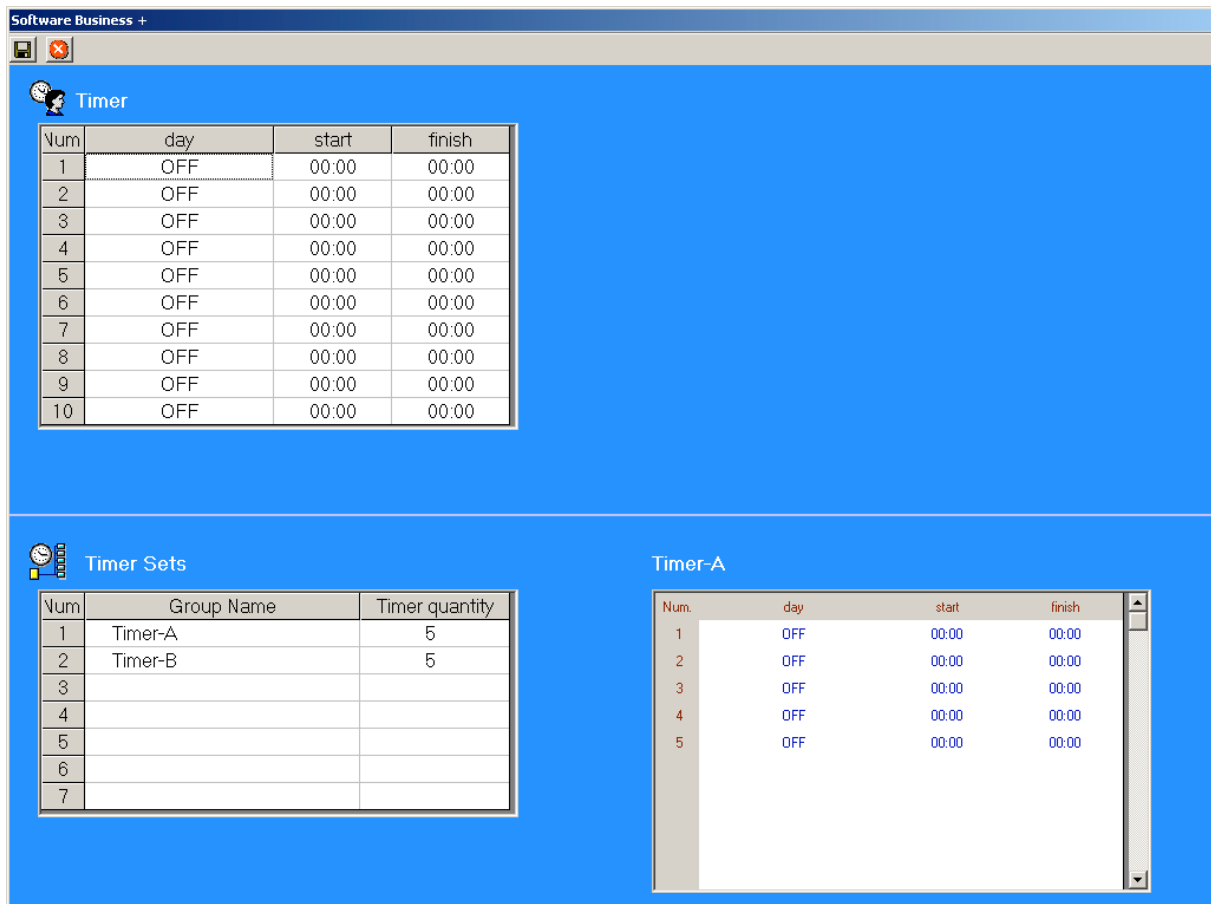


Fig. 16: Clock timers

Preset under the header *Timer Sets* are timer sets A and B in respectively line 1 and line 2.

Earlier evaluation units can be programmed with access times only via these two sets. In each of these *timer sets* you can store up to 5 timers whereby these will be assigned automatically as follows:

Lines 1 – 5 under *Timer* will be automatically assigned to *timer A*, lines 6 – 10 under *Timer* will be automatically assigned to *timer B*.

The remaining *timer sets* are available in an unrestricted manner in current and future evaluation units.

Should there be no earlier evaluation units, ignore *Timer A* or, as the case may be, *Timer B* and use all 10 *timers* as required.

The *timer sets* formed will be stored later in the user administration under the particular persons.

For the formation of *timer sets* proceed as follows:

Lay down a designation for each set.

Double clicking under *Number* opens a window in which all the time windows stored under *Timer* are displayed for selection.

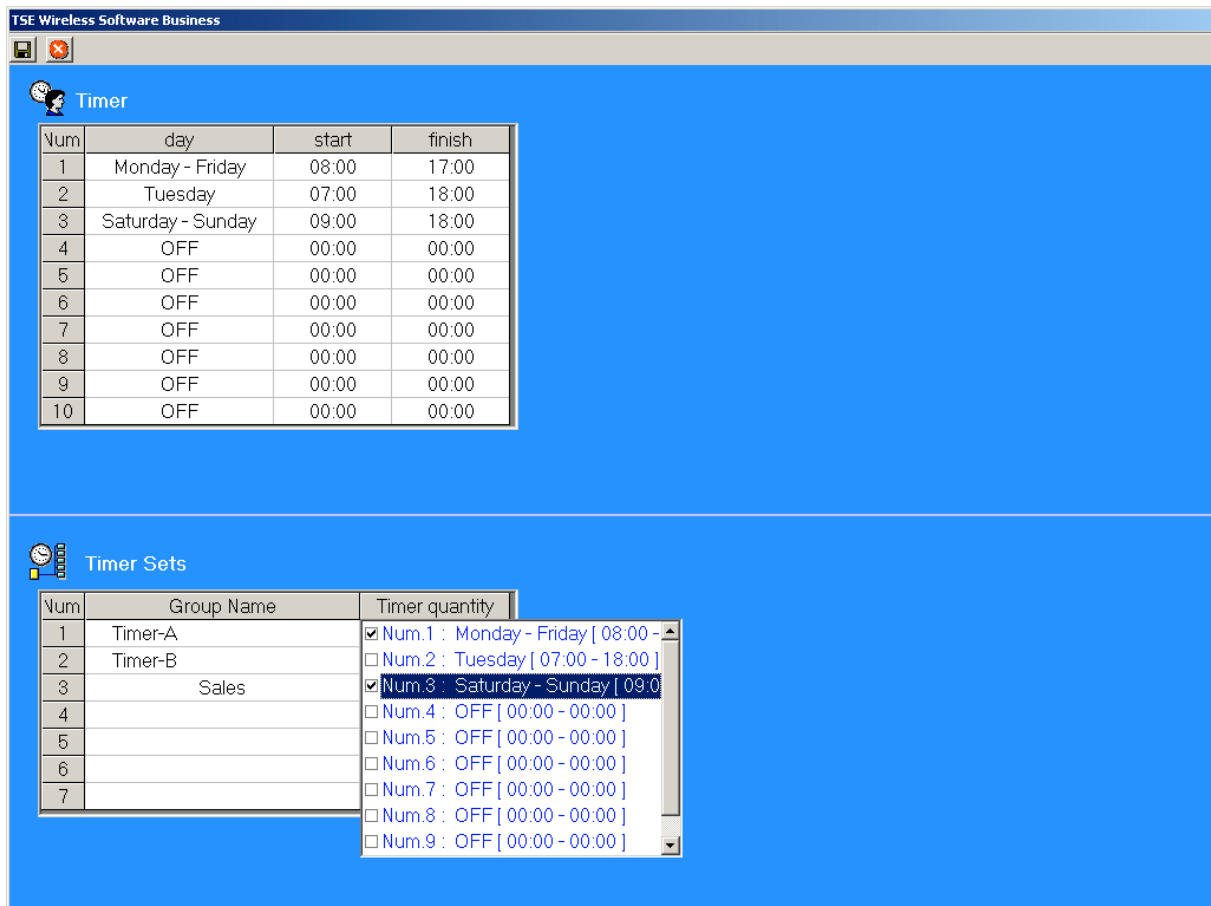


Fig. 17: Timer Sets

Mark the appropriate timers and confirm your entry with Enter.

The selected number of *timers* will be entered.

You can have the access times of the individual timer sets as stored displayed. For this click on the particular *timer set*. The assigned timers will then be displayed in the window which appears next to the first.

Software Business +

Timer

Num	day	start	finish
1	Monday - Friday	08:00	17:00
2	Saturday - Sunday	09:00	18:00
3	Monday - Sunday	06:00	17:00
4	Tuesday	10:00	16:00
5	OFF	00:00	00:00
6	OFF	00:00	00:00
7	OFF	00:00	00:00
8	OFF	00:00	00:00
9	OFF	00:00	00:00
10	OFF	00:00	00:00

Timer Sets

Num	Group Name	Timer quantity
1	Timer-A	5
2	Timer-B	5
3	Sales	1
4	Quality	2
5		
6		
7		

Quality

Num.	day	start	finish
1	Monday - Friday	08:00	17:00
4	Tuesday	10:00	16:00

Fig. 18: Timer Sets overview

Save your entries and close the window.

Permanent timers

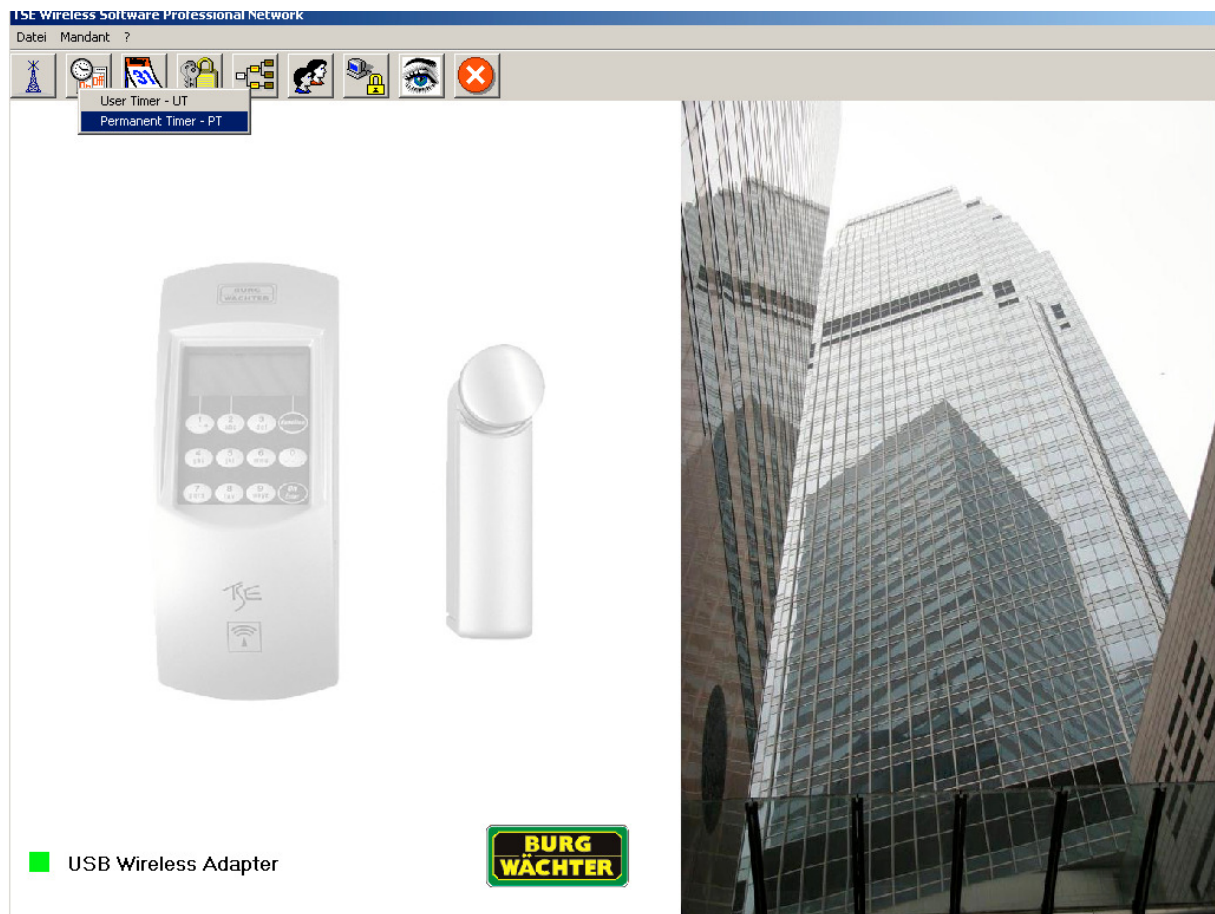


Fig. 19: Permanent timer

Via the menu *Permanent Timer – PT* you have the opportunity of entering time settings for individual door locks for the purpose of activating a permanently-open function for these doors.

5 *timers* and 5 *timer sets* are available.

Programming is carried out exactly as described under section 3.3. In addition the permanently-open function identifies the related clock timers. The following example makes this clear:

Monday – Friday Begin: 14:00 End: 16:00
Monday – Friday Begin: 16:00 End: 18:00

If, for example, the user opens the locking system in a permanent manner on Tuesday at 15:33 hours, the open time would go up to and including 18:00 hours. The next example shows that it is also possible for a time period to extend beyond midnight:

Monday – Friday Begin: 22:00 End: 23:59
Monday – Friday Begin: 00:00 End: 06:00

3.4. Menu Holiday calendar

In this menu you have the possibility to program public holidays and vacation calendar. A public holiday can cover a single day or a period of several days. You can distinguish between permanent holidays which are fixed on a particular date and one time holidays which are deleted automatically after they have expired.

On programmed public holidays/vacations, the lock remains closed for users allocated to a timer. This does not apply to any other user or to the administrator.

- Permanent holidays

Permanent holidays are fixed on a particular date, e.g. New Year or Christmas. They are copied to the subsequent years and do not need to be reprogrammed every year.

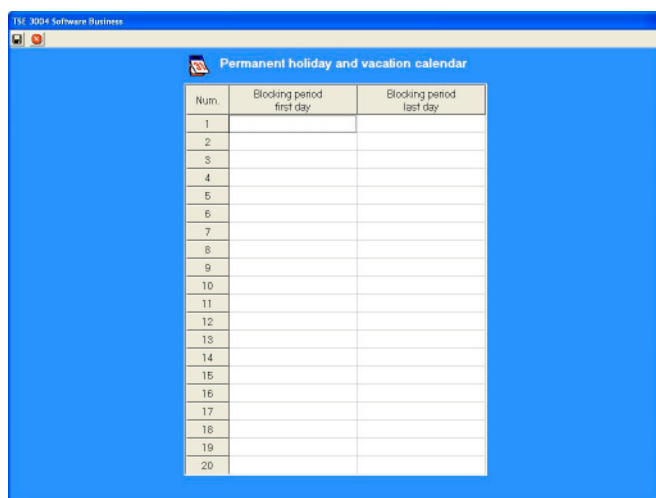


Fig. 20: Permanent holidays

- Public holiday and vacation calendar

One-time holidays are variable, e.g. Easter or a summer vacation. After they have expired they are deleted automatically.

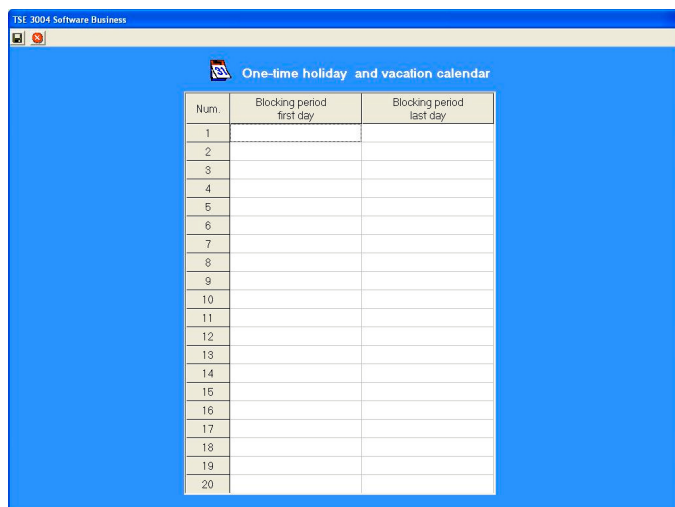


Fig. 21: One-time holidays

After settings are done store all data with  .

3.5. Access rights

The access rights can be programmed in the menu User Administration. To get access to a door it is necessary have full right (reach value 1). Evaluation unit in the Version 2.8 and onwards also permit opening even if the value 1 is exceeded.

1	access authorisation alone
1/2	access only allowed together with a further person
1/3	access only allowed together with two further persons
0	access denied
Admin	access and programming authorisation

Fig. 22: Access rights

3.6. E-Key administration

In the menu *User administration* you have the possibility to access an E-Key to a user and name it. You can also access a no named E-Key to an unknown user and to synchronize it.

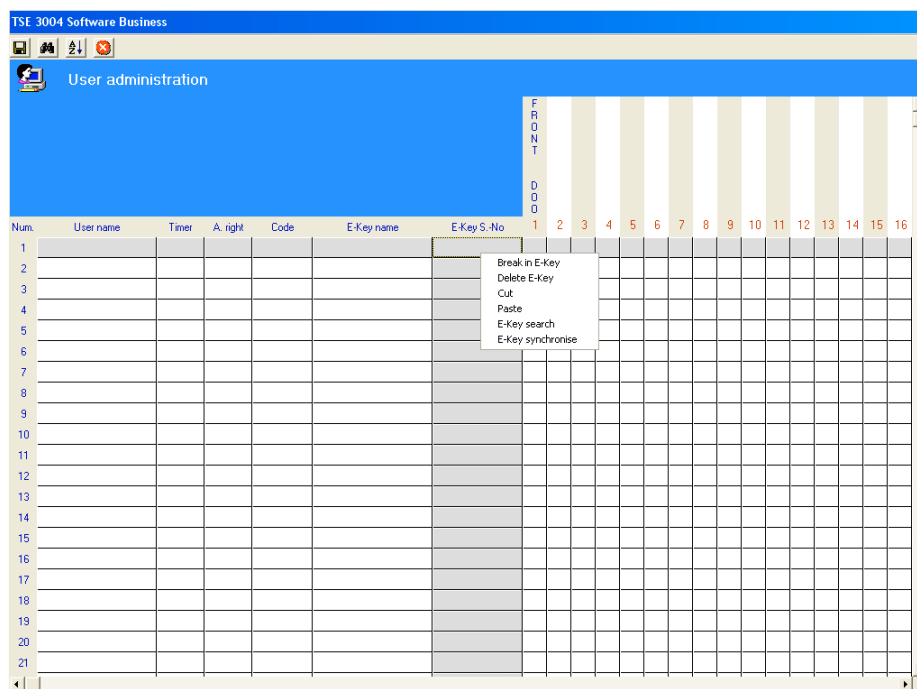


Fig. 23: E-Key access

Different options are available by using the left mouse button:

- Programme E-Key
- Delete E-Key
- Cut
- Paste
- Search E-Key
- Synchronise E-Key

Below we will take a closer look to some options.

3.6.1. Programme E-Key

To programme an E-Key you have to do the following:

- Press E-Key access field, a pop-up window opens
- Choose *break in E-Key*
- E-Key in programming mode (Press the key for approx.15sec, green light flashes three times and press *ENTER* to start data connection)
- Serial No. will be stored automatically.

3.6.2. Search E-Key

To access an unknown E-Key to a user you have to do the following:

- Press E-Key access field, a pop-up window opens
- Choose *E-Key search*
- E-Key in programming mode (Press the key for approx.15sec, green light flashes three times and press *ENTER* to start data connection)
- The defined user will be marked.

3.6.3. Synchronise E-Key

If the transmission channel is changed after programming, all concerned E-Keys have to be readjusted to the new transmission channel, the E-Keys have to be synchronised.

To call attention to this very important point all new adjustable E-Keys are marked in red.

You have to do the following:

- Press E-Key access field, a pop-up window opens
- Choose *E-Key search*
- E-Key in programming mode (Press the key for approx.15sec, green light flashes three times and press *ENTER* to start data connection)
- The colour of the serial number changes from red to black.


Before storing an E-Key the RFID channel of the lock(s) has to be identical to the transmission channel chosen in the software.

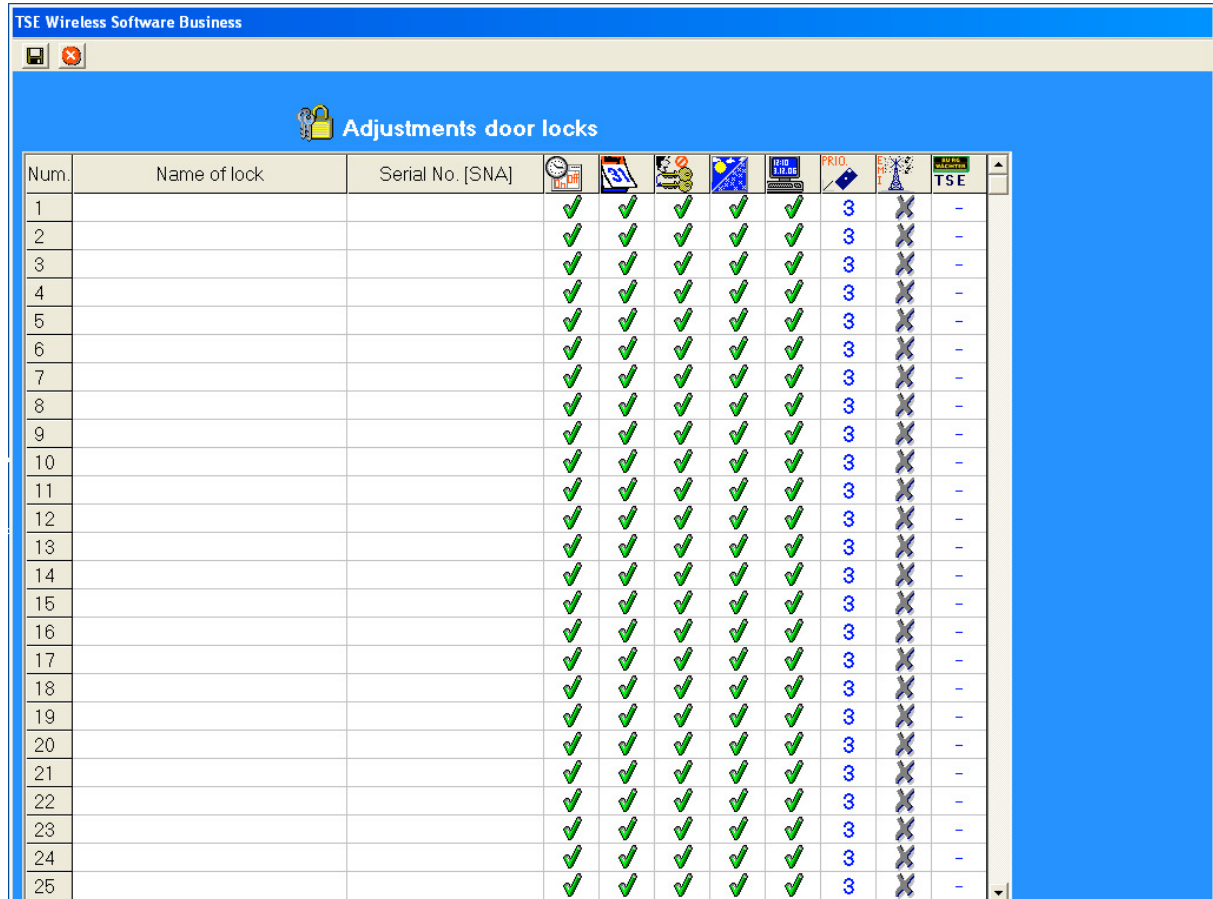
It is only possible to store one E-Key for one user.

The access right of the E-Key is always 1 independently on adjustments done in the menu *User administration*.

With versions 2.8 and later of the evaluation unit the E-key is also subject to the settings carried out under menu option *User Administration* concerning access authorisations. Here, even though a user has the right ½, it will not be possible for him/her to carry out opening with E-key and code even though in total he/she reaches the right 1. For opening he/she needs another user in order to reach the right of at least 1.

3.7. Setup locks

In this menu all doors in which the user sets will be stored will be configured. By pressing the icon  the window Setup locks will be opened.



Num.	Name of lock	Serial No. [SNA]						PRIO.		TSE
1			✓	✓	✓	✓	✓	3	X	-
2			✓	✓	✓	✓	✓	3	X	-
3			✓	✓	✓	✓	✓	3	X	-
4			✓	✓	✓	✓	✓	3	X	-
5			✓	✓	✓	✓	✓	3	X	-
6			✓	✓	✓	✓	✓	3	X	-
7			✓	✓	✓	✓	✓	3	X	-
8			✓	✓	✓	✓	✓	3	X	-
9			✓	✓	✓	✓	✓	3	X	-
10			✓	✓	✓	✓	✓	3	X	-
11			✓	✓	✓	✓	✓	3	X	-
12			✓	✓	✓	✓	✓	3	X	-
13			✓	✓	✓	✓	✓	3	X	-
14			✓	✓	✓	✓	✓	3	X	-
15			✓	✓	✓	✓	✓	3	X	-
16			✓	✓	✓	✓	✓	3	X	-
17			✓	✓	✓	✓	✓	3	X	-
18			✓	✓	✓	✓	✓	3	X	-
19			✓	✓	✓	✓	✓	3	X	-
20			✓	✓	✓	✓	✓	3	X	-
21			✓	✓	✓	✓	✓	3	X	-
22			✓	✓	✓	✓	✓	3	X	-
23			✓	✓	✓	✓	✓	3	X	-
24			✓	✓	✓	✓	✓	3	X	-
25			✓	✓	✓	✓	✓	3	X	-

Fig. 24: Setup locks

If you are working with TSE-Network with different USB-Adapters, then a new column will appear under "Setup Locks". In this column you can decide to which USB-adapter the evaluation unit is accessible. If this column is not visible, then move the scroll bar to the right side.

To select the respective USB-adapter press double-click on the corresponding field. The possible USB-adapters will be listed. Now select the suitable USB-adapter and confirm.

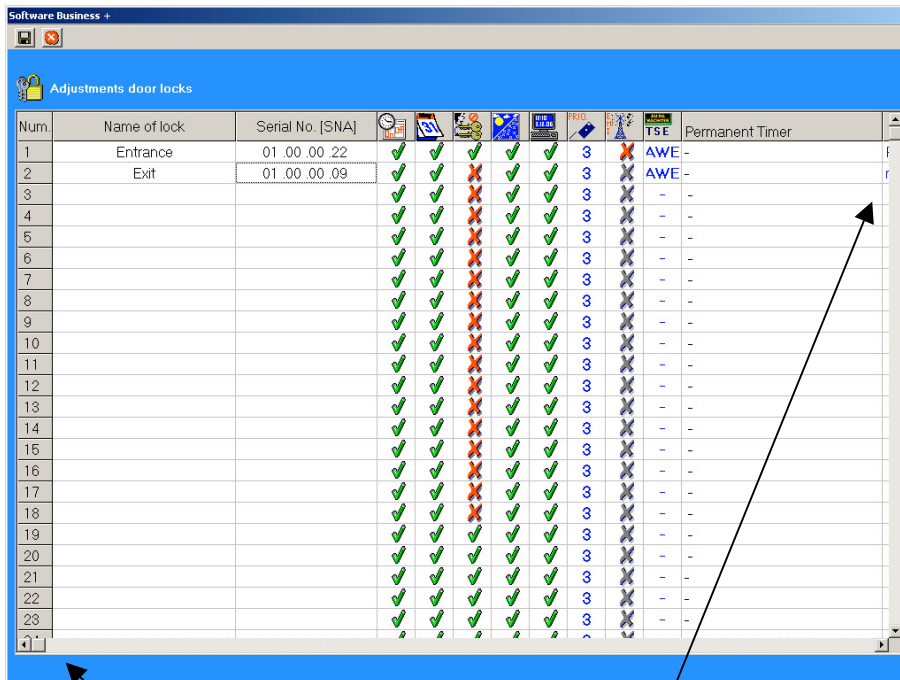


Fig. 25: Selection USB-adapters
 Scroll bar

Option USB-adapter

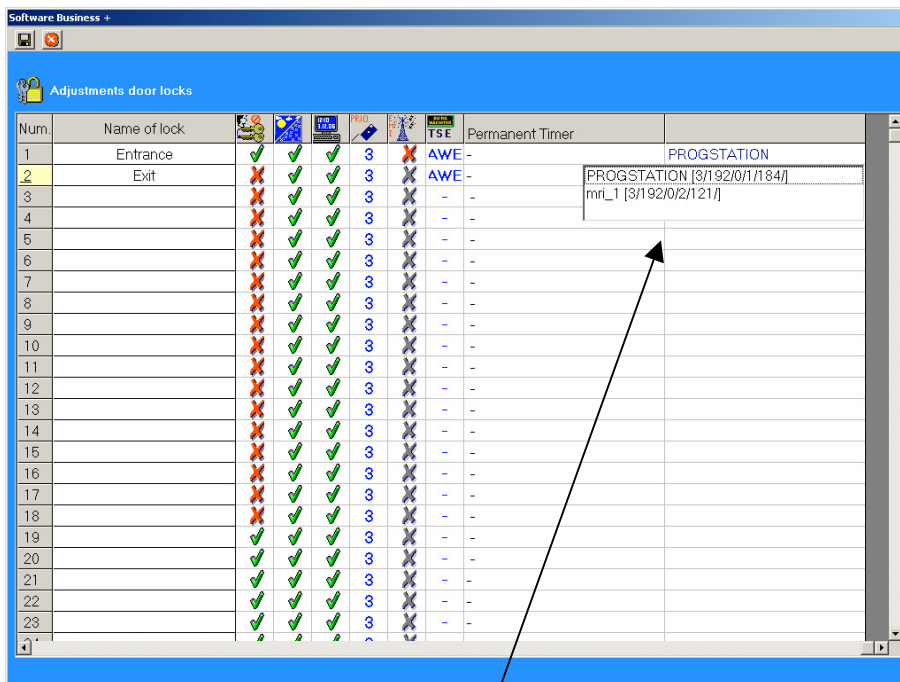


Fig. 25: Selection USB-adapters II

Option USB-adapter

To select the USB-adapter press double-click in the corresponding field. Now the different USB-adapters are listed. The suitable USB-adapter must be selected and confirmed with double-click.

In the field Setup locks the following can be selected:

Option Field	Input/Menu Item
Name of lock	max. 10 digits e.g. Entry
Serial No.	Option: Manually or automatically, configuration
Setup timer	Option: X -> function deactivated Timer not considered ✓ -> function activated timer considered
Setup calendar	Option: X -> function deactivated Calendar not considered ✓ -> function activated Calendar considered
Cancel code changes for users	Option: ✓ -> user can not change code on Keypad (only for TSE 3004)
Automatic changeover from summer and winter time and vice versa	Option: ✓ -> Lock accepts summer/winter time automatically
Accept actual time and date from PC	Option: ✓ -> When programming the time/date in the lock are checked and automatically changed, when different (data from PC are taken over)
Setup Priority	Option between 1 – 5 1 = low priority 5 = high priority see below for further information
EMI adjustments	Option: ✓ -> function activated see below for further information
Burg-Wächter product type	AWE = evaluation unit STE = Control
Permanent Timer	Allocation of Timer Sets for activating the permanent-open function in lock
USB-adpapter (only for Network version)	Option: Allocation of adapter TCP/IP to lock

Fig. 26: Adjustments locks

In the “Setup Priority” option field, you have the possibility of influencing the reaction of the lock when using the E-Key.

If the right door does not open when using the E-Key, you can increase the priority of that door or reduce the priority of the door that had opened incorrectly. The standard setting is 3, the maximum priority is 5 and the lowest priority 1.

A change to this setting is usually not necessary.

In the event of the system being located in an environment with very high electromagnetic interference (EMI) which has a negative effect on the radio control of the lock, it is possible to adjust the system by activating the EMI field. This function is not usually active **X** and does not need to be altered. The function can be activated by clicking on the field **✓** if the system is located in an environment where there is a very high level of external radio activity.

If a grey cross is shown in the field, the function cannot be activated. Activation of the function is only possible as from version 2.3 of the evaluation unit.

If you check the options with the left mouse key in the *Serial Number* field, you can choose between automatic detection (*Analysis unit teach in*) and manual input (*Manual input*) of the series number. In addition, you can change existing settings under the "Configuration" menu item.

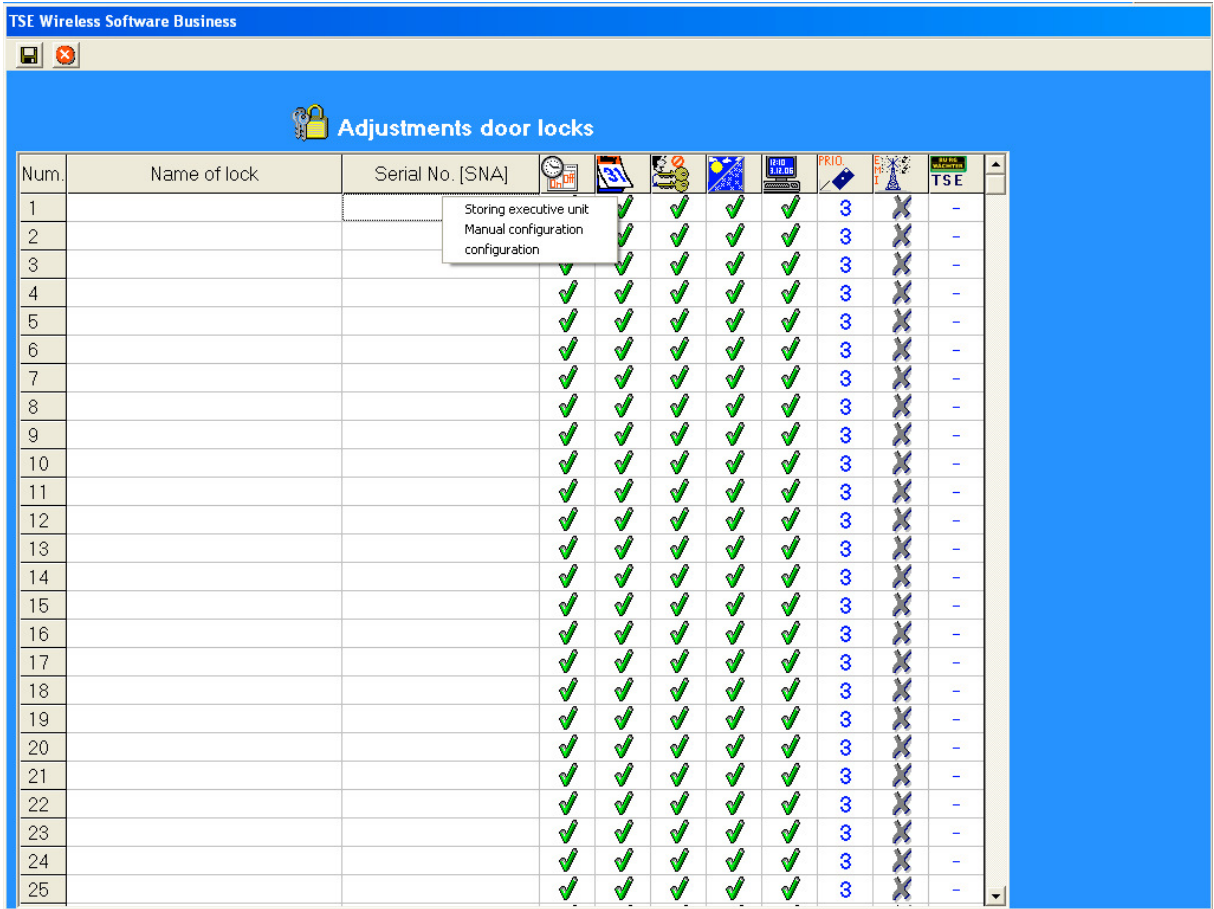


Fig. 27: Series number options

With automatic detection, the serial number is recognised automatically. The *Transmit data* button has to be selected after entering the administrator code. There are different procedures for this depending on the version of the USB adapter. Older USB adapters abort the search procedure when achieving a successful connection. The new USB adapters as from version 1.6 (see under "Info") run through all 12 frequency channels and show the unit with the highest signal strength (RSSI) in each of the radio channels. There is also an automatic detection of the unit as analysis unit or control unit. As from this version, there is an automatic detection of whether the unit concerned is an analysis unit or the electronic TSE wireless control unit (see under menu item *Configuration*).

This procedure is shown in the following diagram:

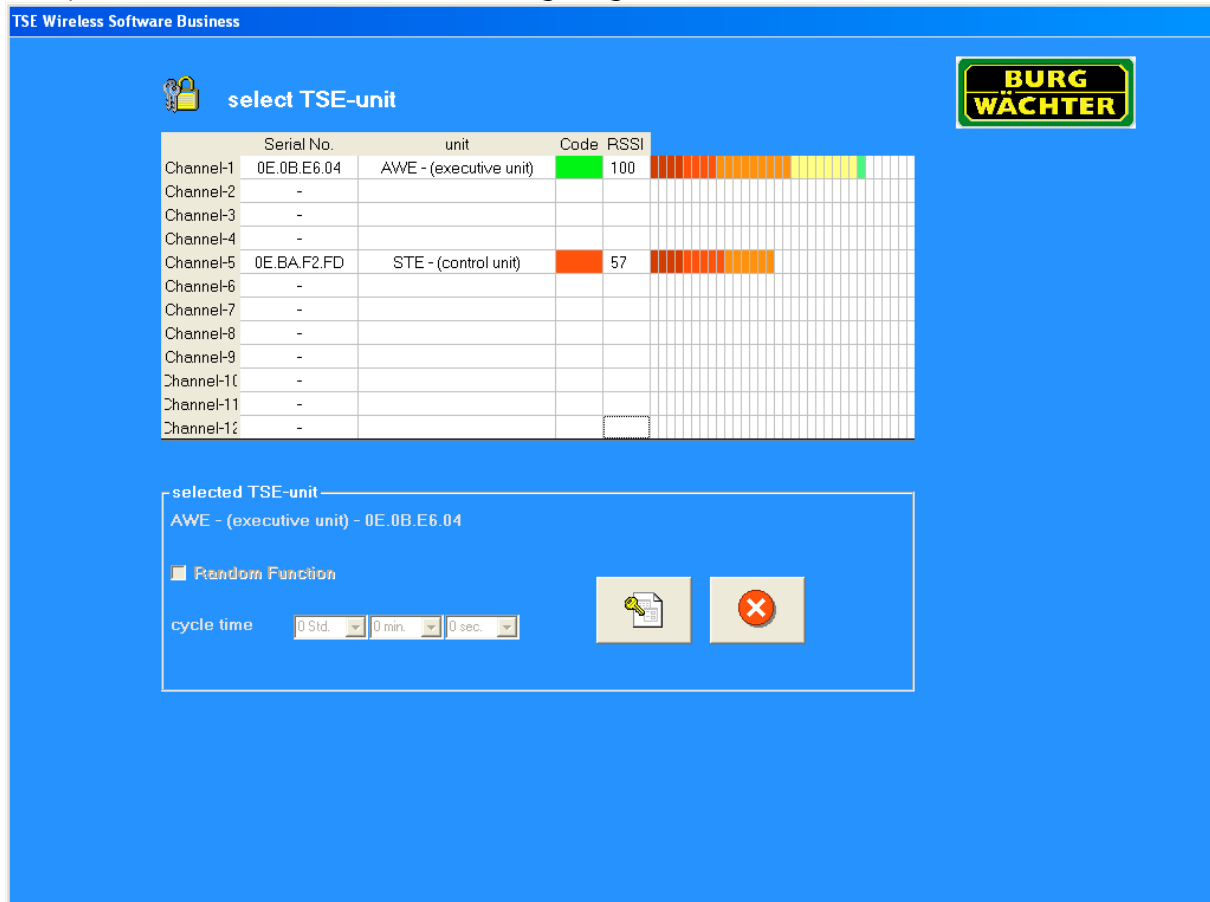


Fig. 28: Teach-in evaluation unit (Automatic detection)

You can see the list of radio channels in the vertical column against the details of the automatically taught-in unit.

If 2 units are superimposed on the **same** radio channel, the series number with the highest signal strength (RSSI) is displayed. This is then the unit that is activated in the event of a radio transmission. If the wrong unit is activated, place the USB adapter in the proximity of the unit to be taught in. If this still does not produce the desired result, remove the batteries for the duration of the teach-in from the unit that is responding incorrectly.

The "Code" column shows the status of the code detection administrator (green = password OK; red = password incorrect).

If an electronic TSE wireless control unit has been detected, there are two further options available in the lower section of the window:

The switch time sets the length of the active phase of the electronic TSE wireless control unit. This depends on the application being sought by you.

If the random function is selected, the electronic TSE wireless control unit is activated at various times and the duration of the activation period is generated at random. To use the random function, the TSE wireless control unit has to be selected in the line with a double click.

Manual input can be used if the serial number is known and an automatic teach-in has proven unsuccessful.

The TSE unit can be defined as evaluation or control unit and an already existing designation of switching time or random function can be changed under the *Configuration* menu item. This can be seen as follows:

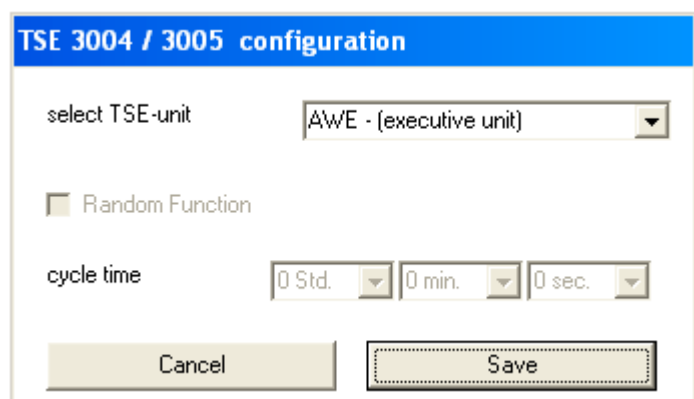



Fig. 29: Configuration

Important: The evaluation unit that has to be programmed must be in the direct proximity of the USB Wireless Adapter. All other units which are to be or have already been programmed must be at a clear distance from this one. If a manual input is being carried out, then the serial number SNA should be read from display of the keypad (only for TSE 3004) in the menu field *Info*.

When programming new door locks, please check that both units are always loaded with new batteries.

The inputs must be saved by using the  icon.

4. Data transmission

In the menu Data transmission all communication between the computer and the lock and the other way round will be done:

For all functions of data transfer it is necessary to enter the administrator code. The pre-installed factory-code is 123456 for all TSE 3004. For the TSE 3005 a label containing the administrator code is provided in the battery compartment of the lock.

- Data will be stored in the lock
- Readout history
- Changing of the administrator code

Please note: A data transmission overwrites the existing data completely. All changes programmed manually in the lock will get lost!

When transmitting data to the lock, the history saved in the lock is transmitted to the PC (when function is activated) and saved here.

Afterwards an overview of all configured locks is shown, editing is now impossible.

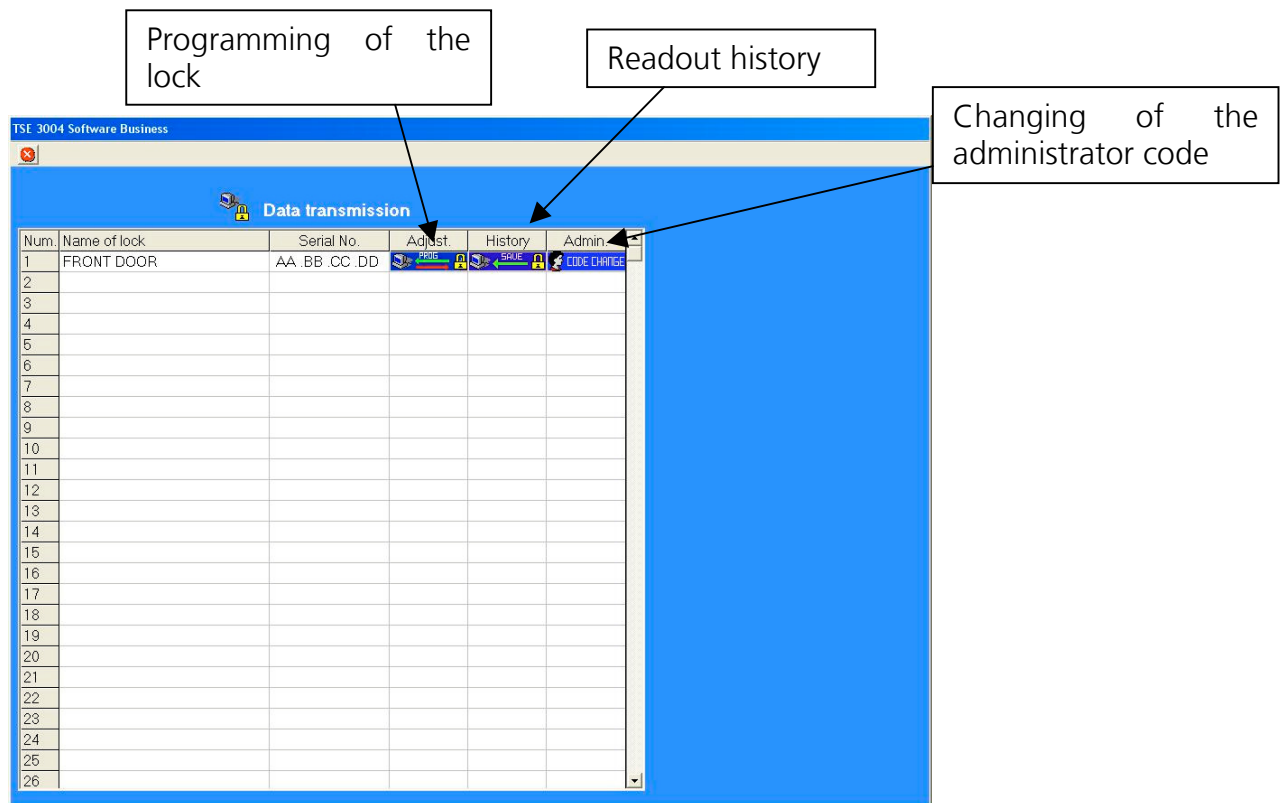


Fig. 30: Data transmission

For data transmission you have to do the following:

- Press the *Prog-symbol*
- Option, if history should be read out or not
(Readout of history will be explained in the next chapter)

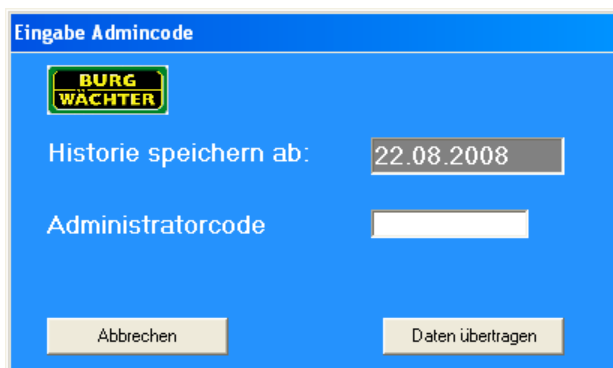


Fig. 31: Admin.Code

Under "Save history as from" the date is set, as from when the history should be read out.

- Enter administrator code
- Press *Save data*

For changing the administrator code you must proceed as follows:

- Press the symbol *Code Change*
- A window appears in which the old code and then new code (which must be repeated to confirm) has to be introduced
- Press *Save data*

When programming the lock and also reading out history the present battery status will be shown in the pop-up window if it has been registered in the history already.

5. History

In the menu *Data transmission* it is possible to read out the history of a special lock. All data will be stored in the folder of the installation mapping of the program (.HIST). To read out the history do the following:

- Click *Save* in the menu *Data transmission*
- Answer the question *History read out* with *OK*
- Under "*Save history as from*" the date is set, as from when the history should be read out
- Add your Admin. Code
- Select button *Data transmission*

All histories can be seen if the button *Readout history* is clicked.

6. Adjustments

It is possible to adjust the COM-port manually under *Data => Adjustment USB-port*. This is only necessary if the recognition of the USB-adapter is not automatic. This is usually an exception.

You can check to which COM-port of your computer the USB-adapter is switched to under:

Start => Adjustments => System control => System => Hardware => Device Manager => Connections

The USB-port must be within the range of 1-15.