

System Manual SmartIntego

09.2015

System Manual SmartIntego

Contents

1	Important notes	4
2	Introduction	5
3	System requirements	6
4	Software installation and configuration	7
4.1	Initial operation of SI.GN2.ER.(M) Installation and configuration of the TCP/IP settings	7
4.2	SimonsVoss device	7
4.3	Digi Device	9
4.4	SimonsVoss Device web application.....	15
5	SI.GN2.ER	23
5.1	System connections	23
5.2	Technical specifications for SI.GN2.ER.(M).....	23
5.3	Images and dimensions	24
5.4	Opening the housing lid.....	25
5.5	Surface installation of wiring.....	25
5.6	Dimensions of lower housing shell	26
6	SmartIntego software installation and configuration	27
6.1	Installing the SmartIntego software	27
6.2	Create new project	27
7	Card configuration: CardConfig (CardCfg001)	29
7.1	Card configuration: Mifare Classic	30
7.2	Card configuration: Mifare DESfire.....	31
7.3	Card configuration: Mifare Plus	32
8	Temporary white list	33
9	Radio network configuration	35
10	Configuration of locks (locking devices)	44
11	SmartHandle DoorMonitoring with SimonsVoss sensor system	46
12	SmartHandle DoorMonitoring with mortise lock sensor system	47
13	DoorMonitoring configuration	48
13.1	Door opening settings	48
13.2	Door opening settings	48
13.3	External sensors.....	49
13.4	Transmission of Events	50

System Manual SmartIntego

14 SmartIntego emergency opening	52
15 SmartIntego software functions	53
16 Online support.....	60
17 SmartIntego Manager - other functions	61
17.1 Network ID.....	61
17.2 Flash icon	61
17.3 Save button	61
17.4 Radio channel	61
17.5 SmartIntego Manager.....	61
17.6 Add GatewayNode	63
18 WaveNet statistics	64
19 Network mask.....	65
20 GN_U(X), GN_ER – Administration.....	66
21 GN_U(X), GN_ER – Maintenance	68
22 LockNode configuration.....	71
23 Resetting GatewayNodes	73
23.1 SmartIntego Manager configurations of GatewayNodes only	73
23.2 Reset SmartIntego Manager configuration of LockNodes.....	73
23.3 Resetting the TCP/IP configuration GN.ER.....	73
24 Connecting RS485, SI.GN.CONFIG.UC & SI.GN.CR.....	74
25 Resetting locking devices	75
26 Additional information.....	76
27 Declaration of Conformity	77
28 Help & contact for SmartIntego	78

System Manual SmartIntego

1 Important notes

SimonsVoss Technologies GmbH reserves the right to modify the product without prior notification. As a result, the descriptions and images in this manual may differ from the latest version of the product or software. The German version applies in cases of doubt. Errors and spelling mistakes excepted.

You can find more information about SimonsVoss products at:
www.smartintego.com

Access through a door may be denied if components are installed or programmed incorrectly. SimonsVoss Technologies GmbH is not liable for consequences of incorrect installation, such as denied access to injured persons or those at risk, physical damage or any other losses.

People who have electronic, medical implants, such as pacemakers and hearing aids, must maintain a minimum distance of 30 cm between the implant and network components and should be expressly informed of this requirement. In the interests of safety, people wearing electronic implants should seek medical advice regarding the potential hazards of radio components (868/915 MHz).

Read through all manuals for the individual SmartIntego components carefully.

System Manual SmartIntego

2 Introduction

You can use the SimonsVoss SmartIntego Manager to set up radio and/or cable networks on your own accord. You must have extensive knowledge of the SmartIntego Tool application software, WaveNet technology and the SV hardware components. Knowledge of IT administration (TCP/IP, LAN / WAN and COM ports) is required.

SmartIntego Manager provides automatic addresses (hex address) for all network nodes in a SimonsVoss radio/cable network. A scan will detect any network nodes already installed. Each component sends a feedback signal with its chip ID to SmartIntego Manager. A network structure is then formed in SmartIntego Manager and the automatically generated hex addresses and chip IDs are displayed. This structure (= topology [hex address]) is available as an exported .csv file after SmartIntego Manager is closed. The radio frequency for Europe and Asia is 868 MHz. 9 different radio channels are available for use.

Note down the associated chip ID for the installation location, so that you can identify where the different network nodes are located.

Remember that precise documentation and a data backup need to be maintained on a continuous basis to ensure stable operation.

System Manual SmartIntego

3 System requirements

General information	Local administrator rights for the installation TCP/IP communication (with activated NetBios) LAN (recommended: 100 MBit/s) Windows domain Acrobat Reader (for the help function)
Client/minimum hardware requirements	Monitor, min. 19" with minimum resolution of 1,024 x 768 px. CPU: 2.66 GHz (or faster) 2 GB RAM (or more) Windows 7, 8 & 10 Professional (32 & 64 Bit) USB port/LAN connection

System Manual SmartIntego

4 Software installation and configuration

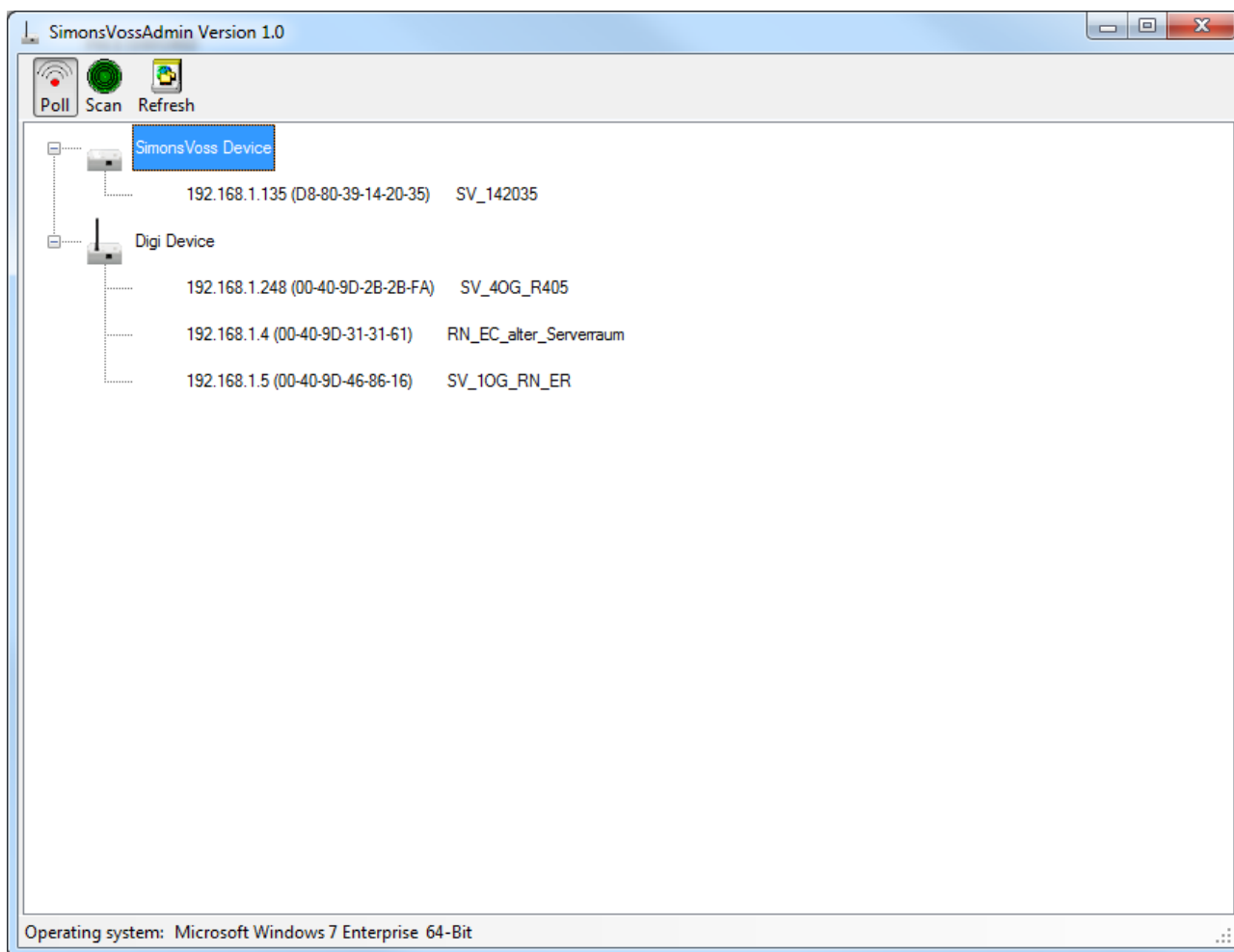
4.1 Initial operation of SI.GN2.ER.(M) Installation and configuration of the TCP/IP settings

You can configure the required IP settings using the SimonsVoss Admin Tool. This tool is available as a free download online: www.smartintego.com

Execute the 'SimonsVossAdmin.exe' file to start configuration.

4.2 SimonsVoss device

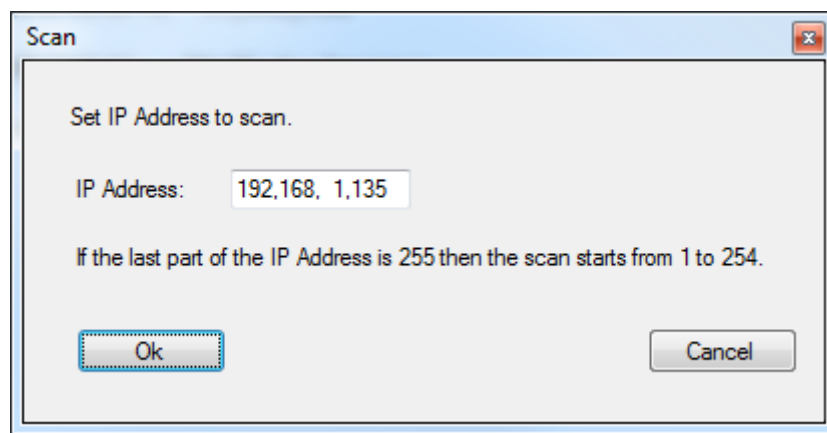
The device type 'SimonsVoss device' is displayed for second generation GatewayNodes. Right-click on the IP address to start the configuration. If no DHCP is used, the router is displayed with the address 192.168.100.100.



System Manual SmartIntego

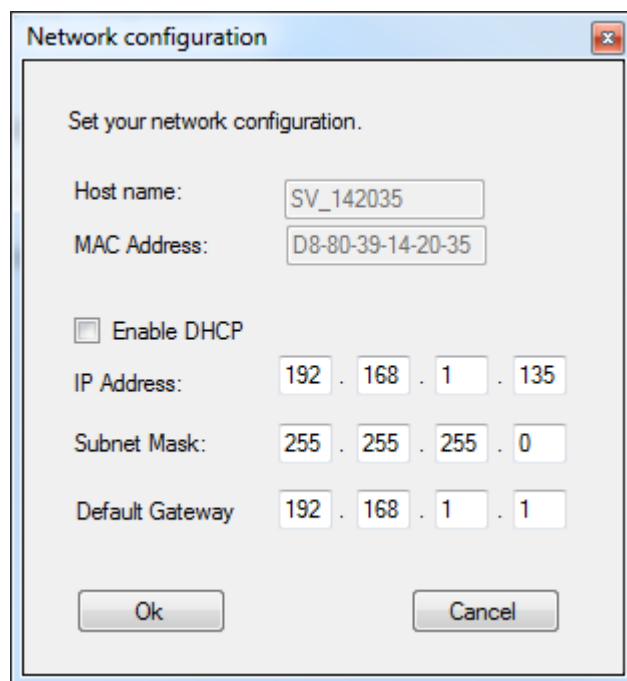
Poll (disable/enable): If the function is enabled (Poll icon is highlighted), all newly added routers are automatically displayed in the SimonsVoss Admin tool using SNMP --> Simple Network Management Protocol (Broadcast!). Once all routers have been added, the Poll function can be deactivated again --> disable. The Poll icon is no longer highlighted.

Scan: you can use the scan to search for an IP address or individual IP addresses.



Refresh: the screen is refreshed.

Set IP (right-click on the IP address with the mouse): this is where the IP settings are changed.



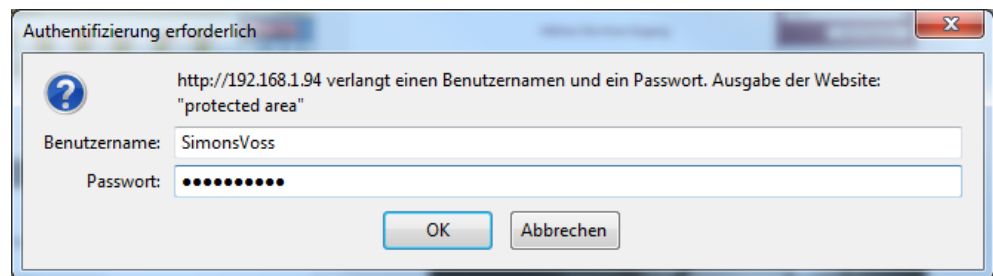
System Manual SmartIntego

Browser (right-click on the IP address with the mouse): this is where you can use the system's default browser to establish a link with the router/ media converter.

Login:

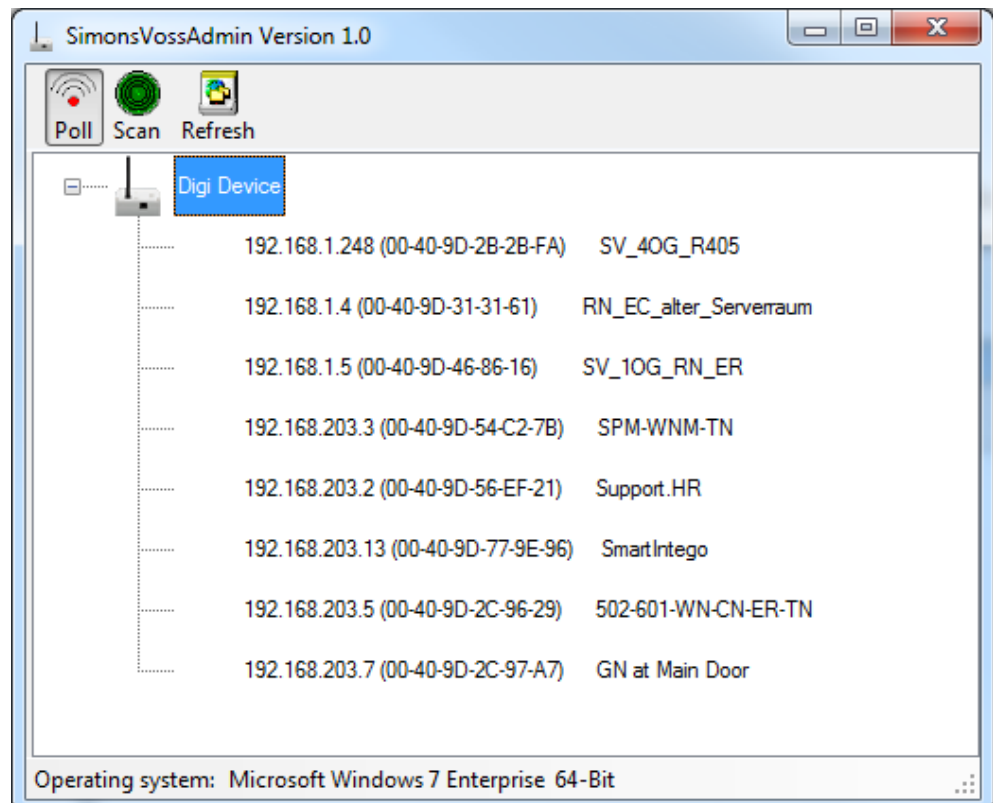
User: SimonsVoss

Password: SimonsVoss



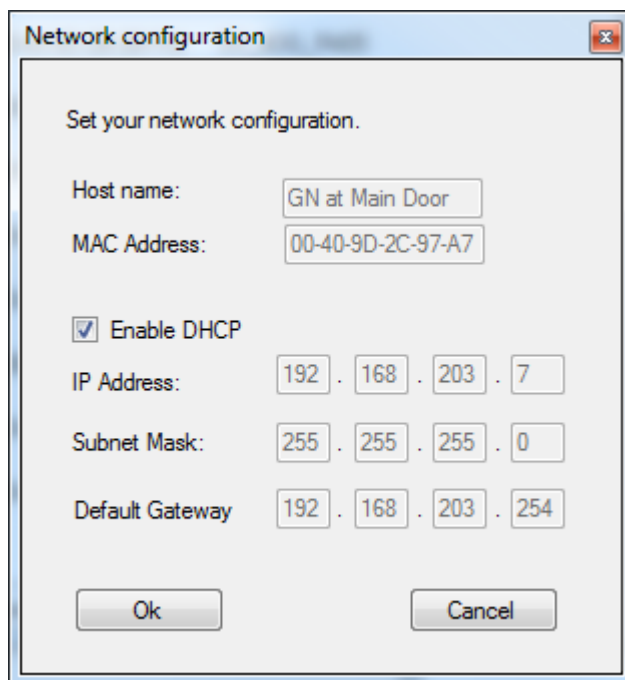
4.3 Digi Device

The device type 'Digi Device' is displayed for preceding generation GatewayNodes. Right-click on the IP address to start the configuration. You need to be in the same subnet to perform configuration. If no DHCP is used, the router is displayed with the setting 169.x.x.y or ! 0.0.0.0.



System Manual SmartIntego

Set IP (right-click on the IP address with the mouse): this is where the IP settings are changed.

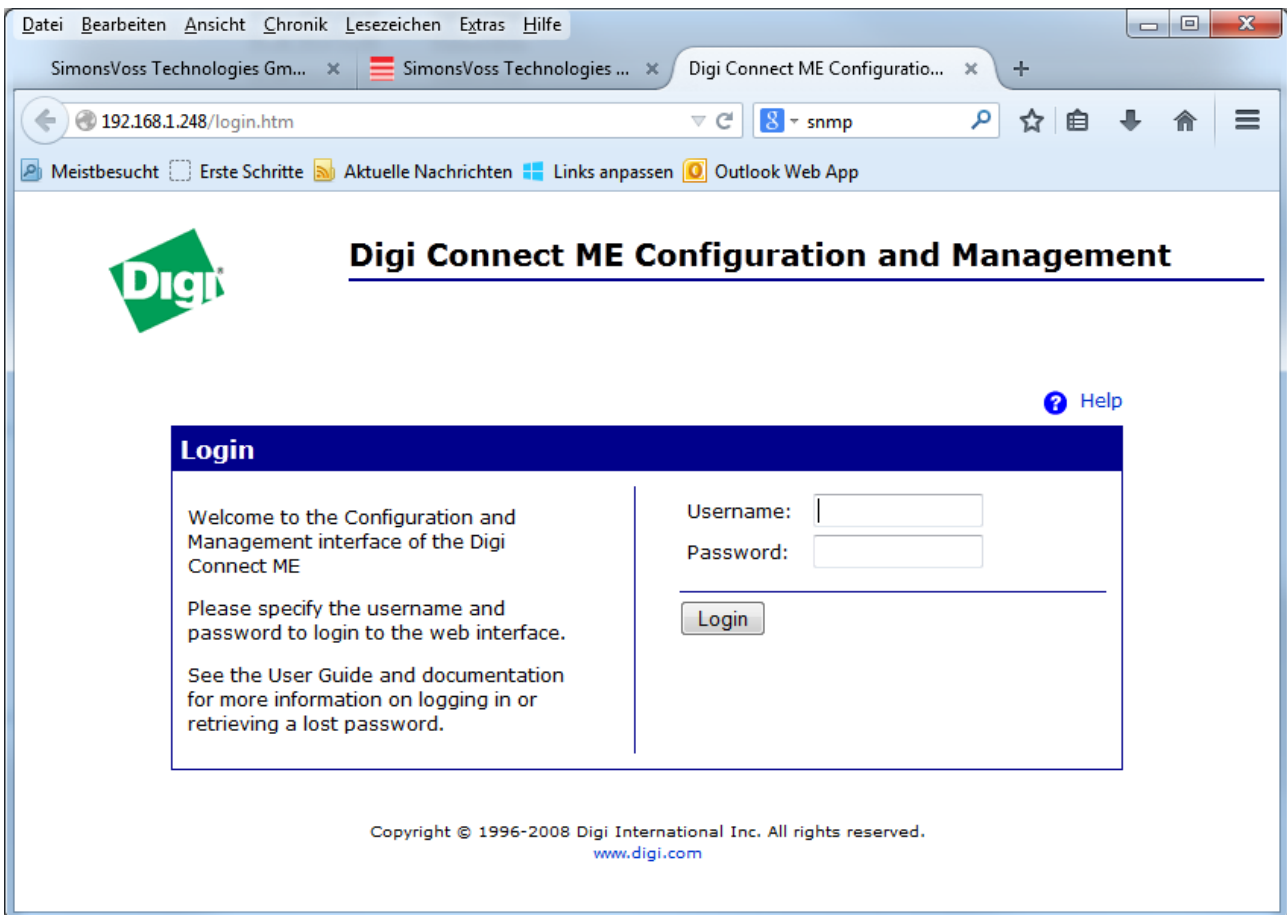


System Manual SmartIntego

Browser (right-click on the IP address with the mouse): this is where you can use the system's default browser to establish a link with the router/ media converter.

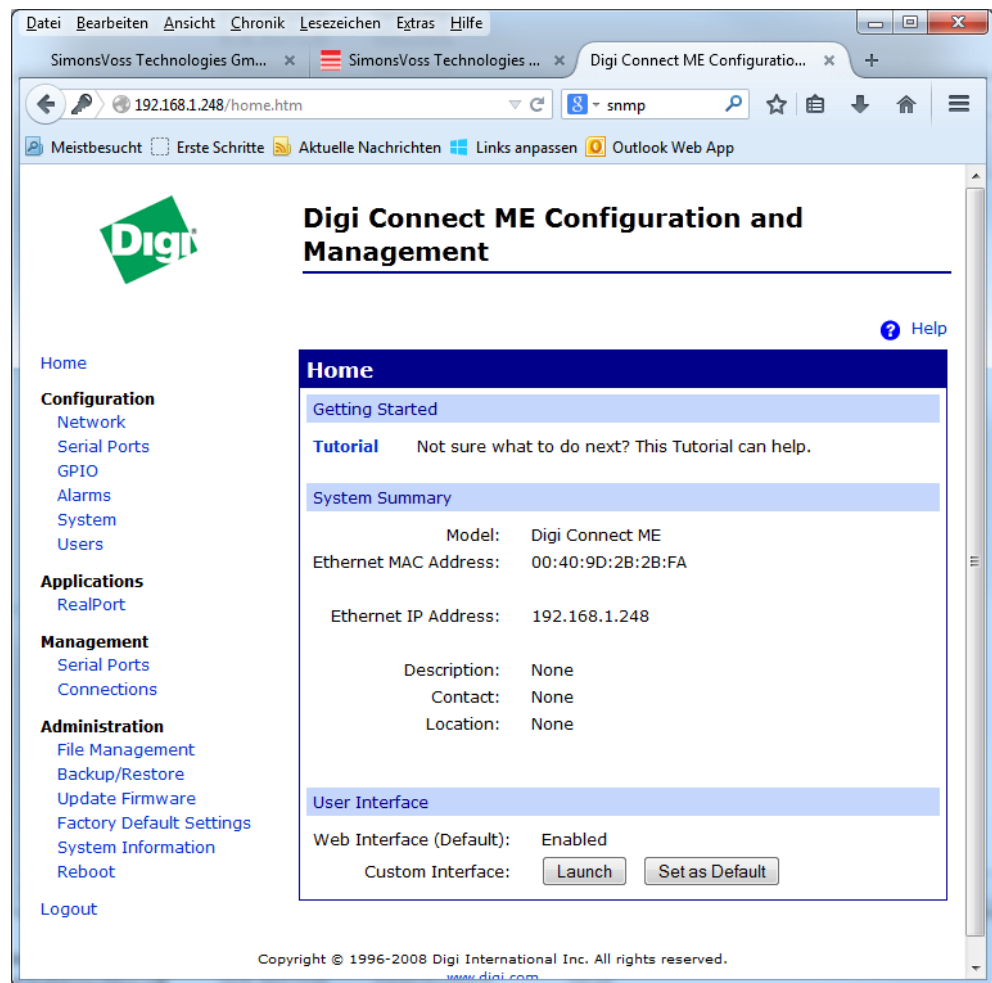
User name: root

Password: dbps



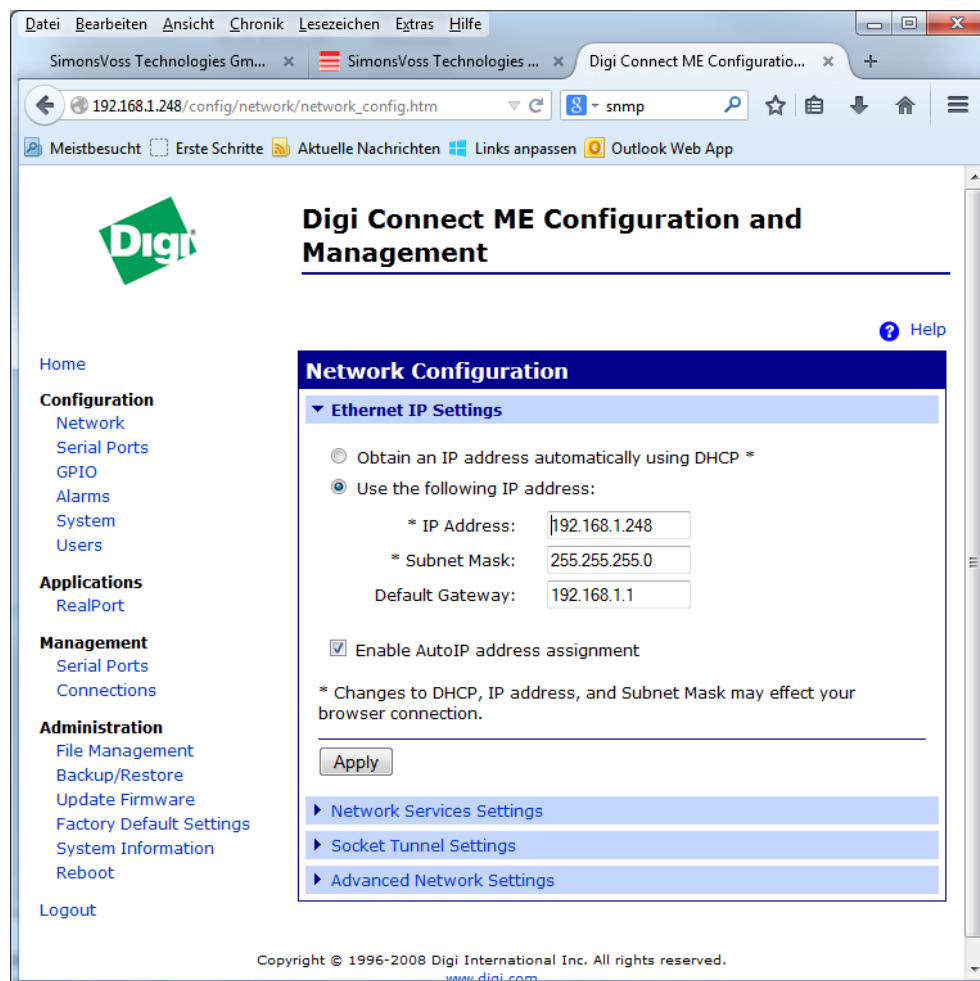
System Manual SmartIntego

Once you have logged in successfully, the main window will appear (Digi Connect ME4 9210 Configuration and Management). Select Configuration --> Network in the browser.



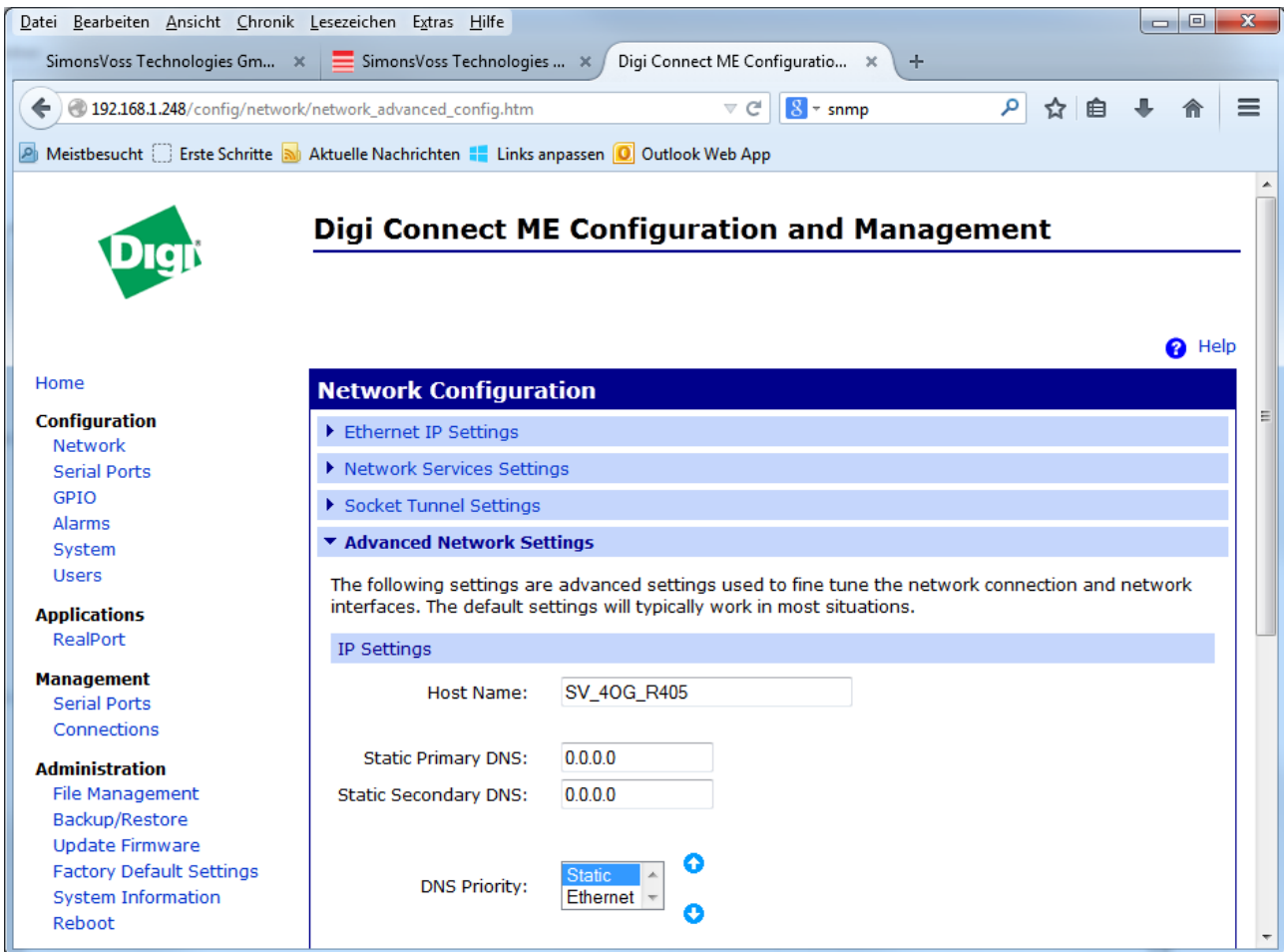
System Manual SmartIntego

This is where the IP settings are changed. DHCP is the default initial state in storage mode. Click on 'Apply' to accept the changes that you have made. The application communicates via Port 2101 --> take firewall settings into account!



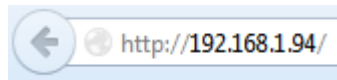
System Manual SmartIntego

Select Advanced Network Settings. This is where you can add the chip ID from the packaging label to the host name, for example.



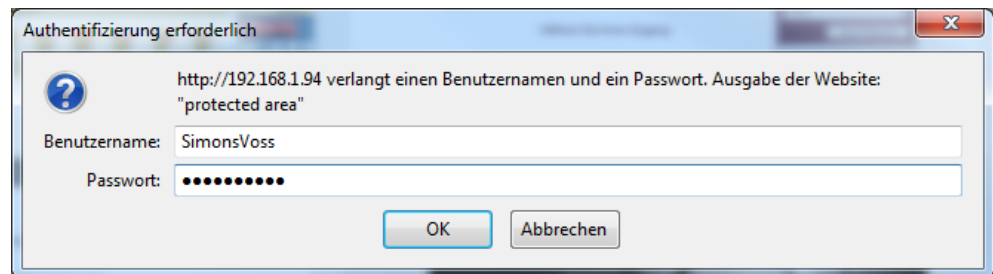
System Manual SmartIntego

Once configuration is complete, you can access the media converter using the web browser to enter the IP address.



User name: SimonsVoss

Password: SimonsVoss

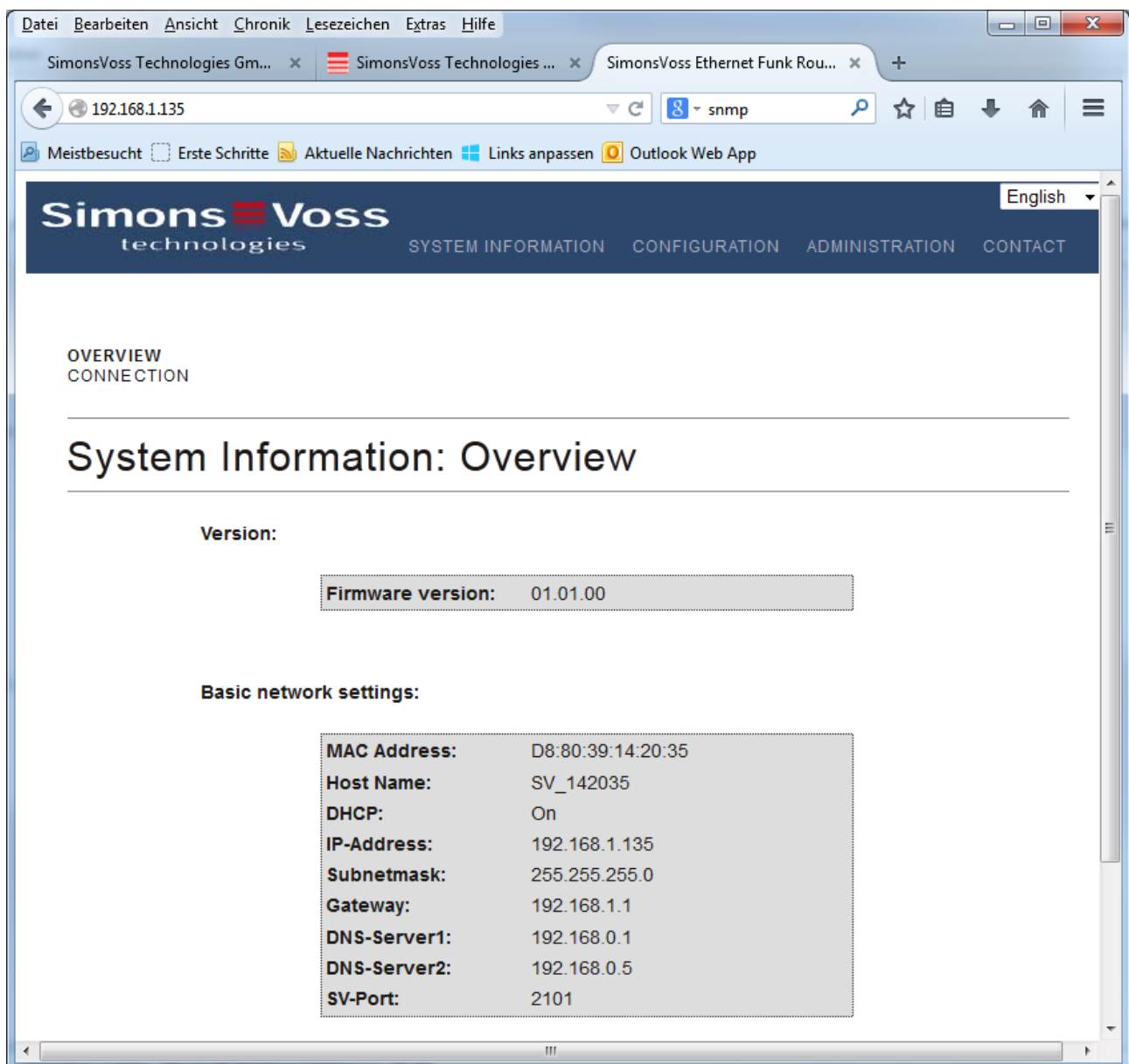


System Manual SmartIntego

4.4 SimonsVoss Device web application

The following window will appear after a successful login:

Overview: System Information --> you can only change the language, German or English, on this screen.



The screenshot shows a web browser window displaying the SimonsVoss Device web application. The browser's address bar shows the IP address 192.168.1.135. The page title is "System Information: Overview". The interface includes a navigation menu with options: SYSTEM INFORMATION, CONFIGURATION, ADMINISTRATION, and CONTACT. The main content area displays the following information:

OVERVIEW
CONNECTION

System Information: Overview

Version:

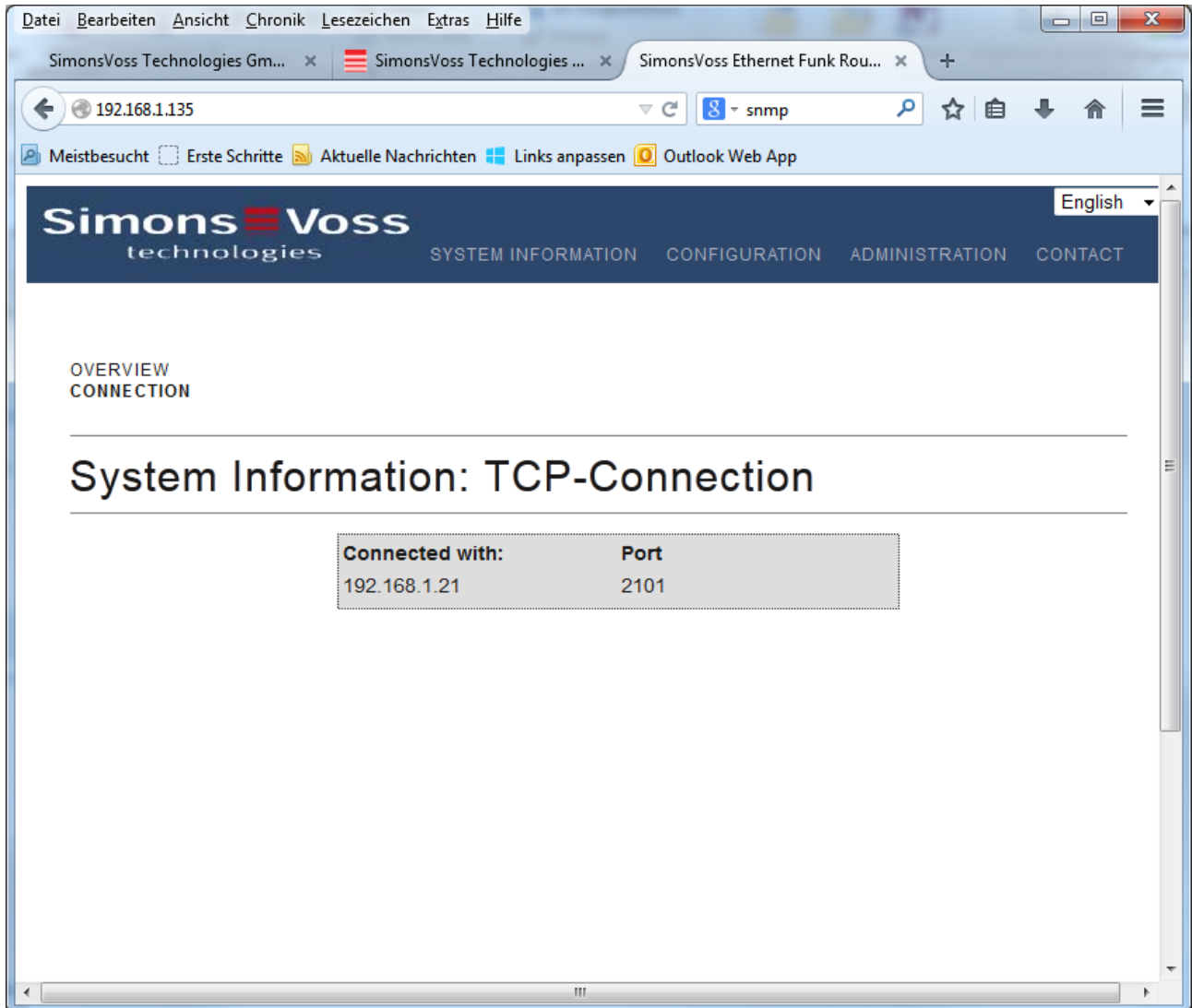
Firmware version:	01.01.00
--------------------------	----------

Basic network settings:

MAC Address:	D8:80:39:14:20:35
Host Name:	SV_142035
DHCP:	On
IP-Address:	192.168.1.135
Subnetmask:	255.255.255.0
Gateway:	192.168.1.1
DNS-Server1:	192.168.0.1
DNS-Server2:	192.168.0.5
SV-Port:	2101

System Manual SmartIntego

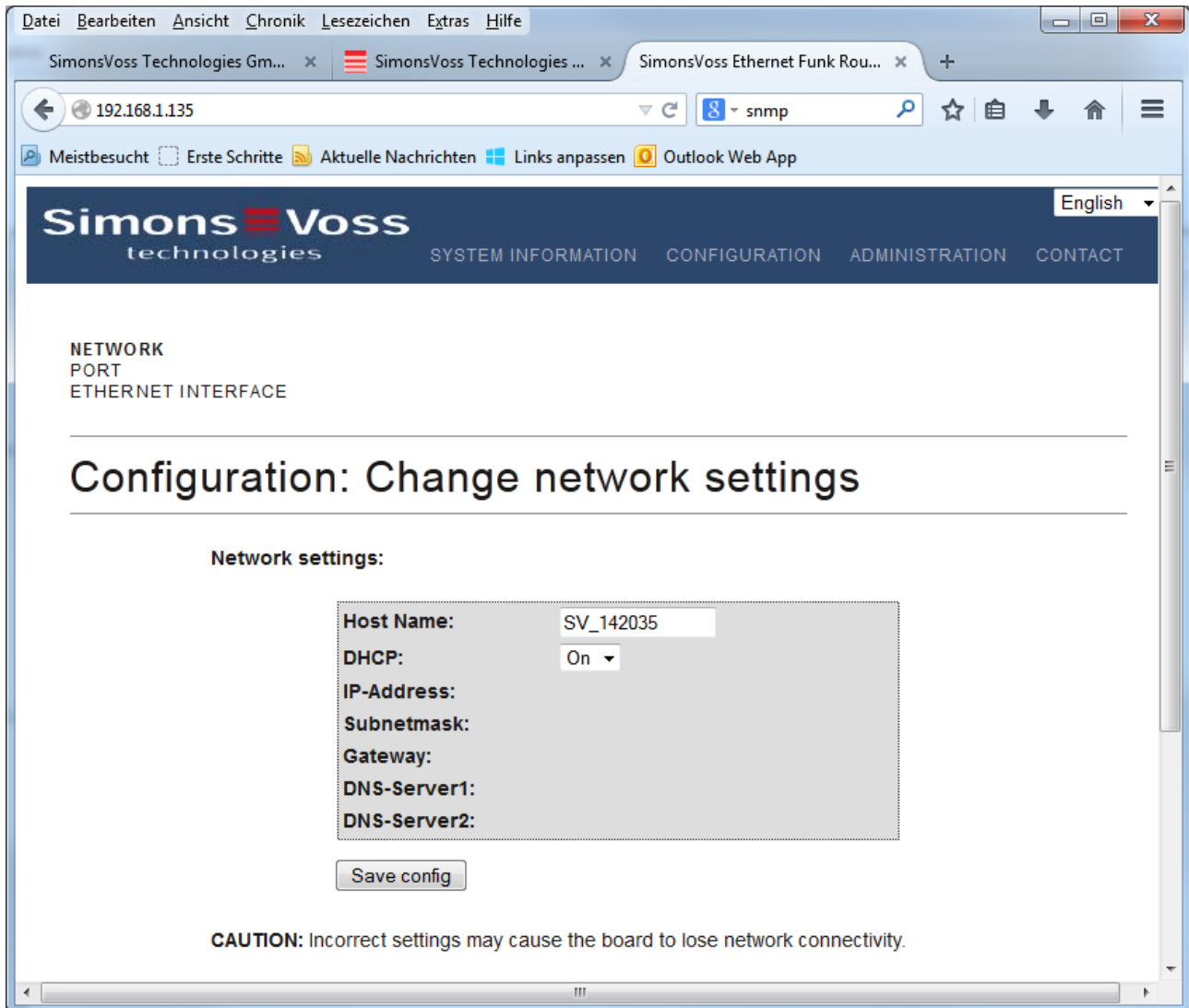
Connection: this shows whether an application is connected to this device via Port 2101.



System Manual SmartIntego

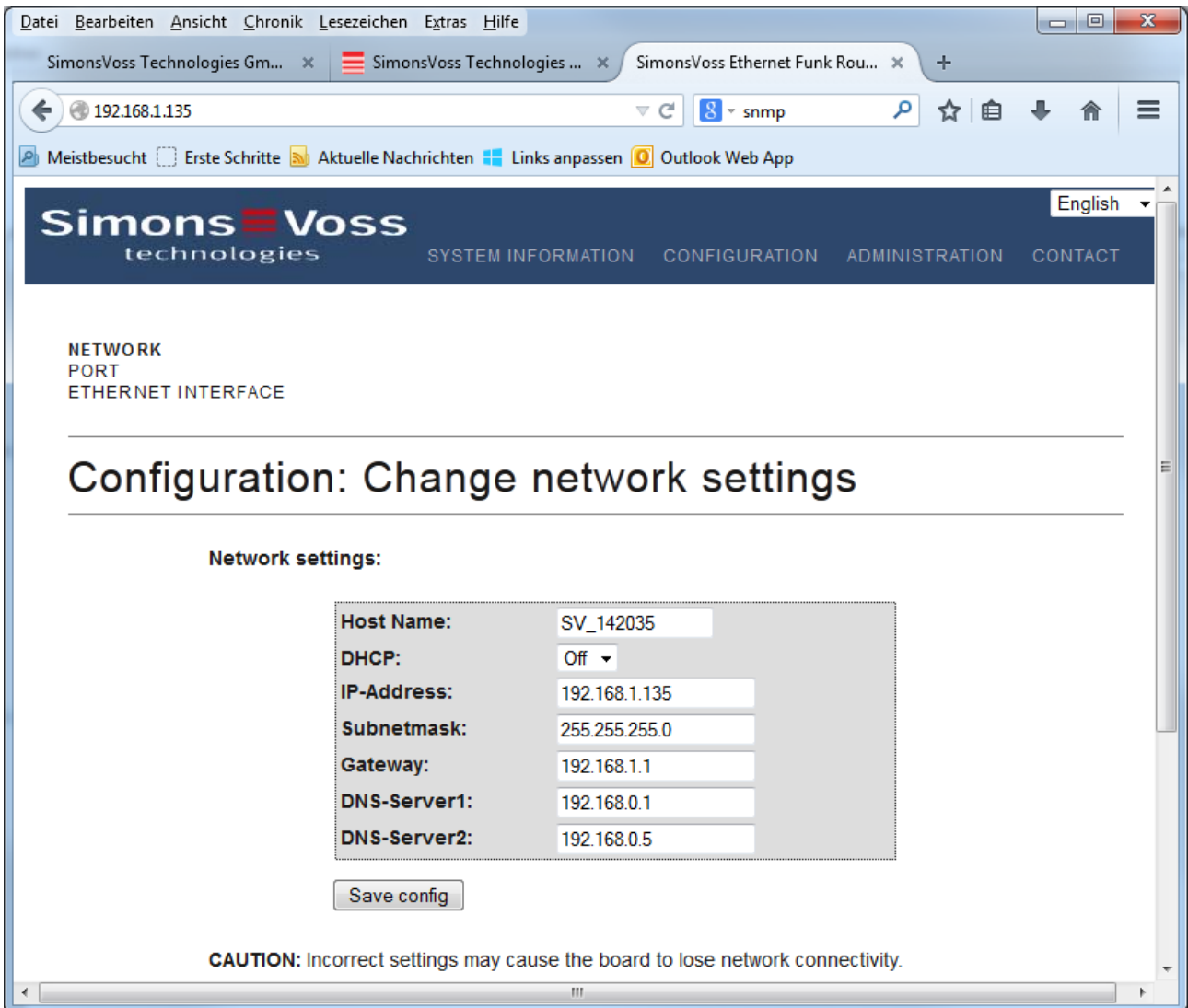
Configuration – NETWORK

DHCP is pre-set to 'On' in storage mode.



System Manual SmartIntego

DHCP 'Off' and other setting options.



System Manual SmartIntego

Configuration – Port

Simons Voss technologies English ▾
SYSTEM INFORMATION | CONFIGURATION | ADMINISTRATION | CONTACT

NETWORK
PORT
ETHERNET INTERFACE

Configuration: port settings

TCP port settings:

SV Port:	2101
Telnet:	On ▾
Firmware update:	On ▾

Save config

SV Port: the default port is 2101. Can be changed (NOT for LSM applications/SmartIntego applications) --> the SimonsVoss application software can no longer be linked to this router after the change!

Telnet: you can select 'On' or 'Off'

Firmware update: you can select 'On' or 'Off'

System Manual SmartIntego

Configuration – ETHERNET INTERFACE

This is where you make the speed setting. 'AUTO' storage mode.

Simons Voss technologies English ▾
SYSTEM INFORMATION CONFIGURATION ADMINISTRATION CONTACT

NETWORK
PORT
ETHERNET INTERFACE

Configuration: Change Ethernet Interface settings

Ethernet Interface:

Speed: ▾

ADMINISTRATION – PASSWORD

Password change for web login.

Simons Voss technologies English ▾
SYSTEM INFORMATION CONFIGURATION ADMINISTRATION CONTACT

PASSWORD
REBOOT

Administration: Change password

New password:

New password:
Confirm password:

ADMINISTRATION – REBOOT

System Manual SmartIntego

Reboot for the media converter (router).

PASSWORD
REBOOT

Administration: Reboot the router

Reboot

Information: The reboot process will take approximately 10 seconds to complete.

CONTACT – SIMONSVOSS

Different contact options are available.

Contact Simons Voss.

Simons Voss Technologies GmbH

FeringasträÙe 4
85774 Unterföhring
Deutschland

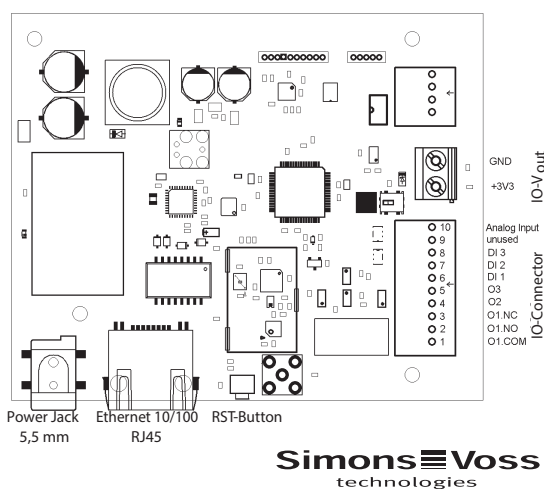
Tel. +49 (0)89 - 99 22 8 - 0
Fax +49 (0)89 - 99 22 8 - 222

E-Mail

System Manual SmartIntego

5 SI.GN2.ER

5.1 System connections



5.2 Technical specifications for SI.GN2.ER.(M)

General information

Order number	SI.GN2.ER (SmartIntego GatewayNode2 Ethernet/Radio)
Housing	ABS plastic, UV-stable,
dimensions (L x W x H)	172 x 86 x 33 mm (L x W x H)
Frequency range	868.xx-870 MHz
Colour	9/118645, same as RAL 9016 (Traffic white)
External power supply	Regulated mains adapter, 9-32 V DC, jack plug, round, 5.5 mm
PoE	Power-over-Ethernet, supports IEEE 802.3af
Output	Max. 3 VA
Transmitting power	10 dBm (about 10 mW) to the antenna socket
Wiring to device	Surface or in-wall installation
Strain relief clamp	3 x in housing
LED	In centre of housing
Wall mount	Housing can be mounted in horizontal or vertical position. Do not install on metal. Keep away from electric or magnetic sources of interference.

System Manual SmartIntego

Power supply

	Vin: 9 V DC min., 32 V DC max./3 W min.
External power supply (mains adapter)	Input current: depends on the input voltage (350 mA @ 8V) Polarity-dependent: no
PoE (power-over-Ethernet)	IEEE802.3af, floating, V _{in} :36 V to 57 V, P _{out} max. 10 W
Power outputs	1 x 3.0 – 3.3 V at 200 mA max.

Environment

Temperature	Operational: -10 °C to +55 °C Storage: 0 °C to +30 °C
Humidity	Max. 90%, non-condensing
Environmental Class	IP20

Interfaces

TCP/IP	10T/100T, HP Auto_MDIX, DHCP client, IPv4 TCP service: 1x at Port 2101 UDP service: 1x for Digi-Scan DHCP: on WebServer: enable Connector: RJ45
Frequency	WaveNet 868-870 MHz, 10 mW max. (10 dBm)

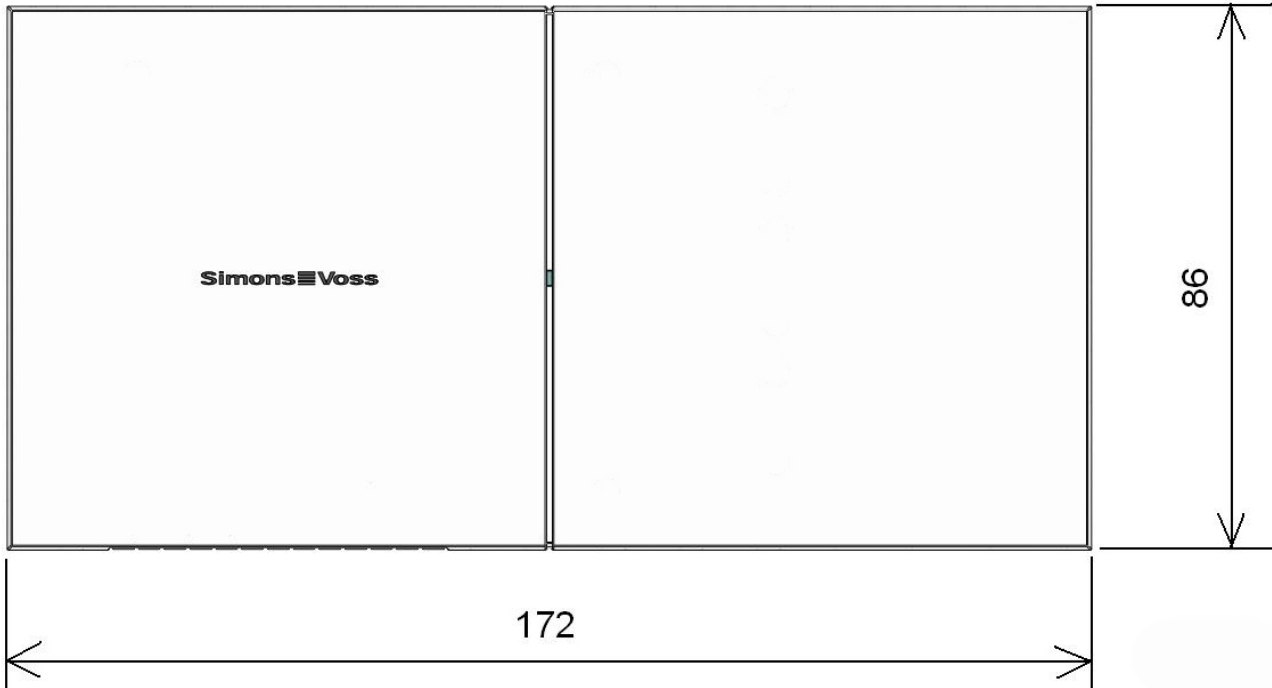
Signalling

LED	A three-colour LED: red, green, blue
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5.3 Images and dimensions



System Manual SmartIntego



(dimensions in mm)

5.4 Opening the housing lid

You do not need a tool to open the upper shell. Apply slight pressure to the centre of the base plate on the left- or right-hand side and then you can remove the upper shell.

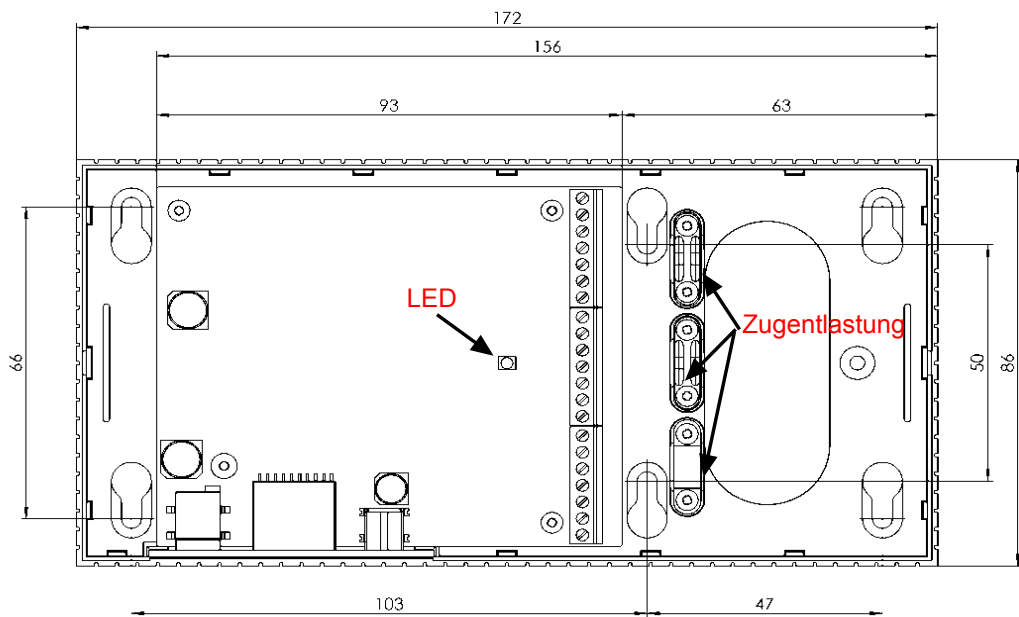


5.5 Surface installation of wiring

Carefully separate the ribs on the lower housing shell from one another with a saw and move the web up and down until it breaks off. Remove any sharp edges with a file.

System Manual SmartIntego

5.6 Dimensions of lower housing shell



System Manual SmartIntego

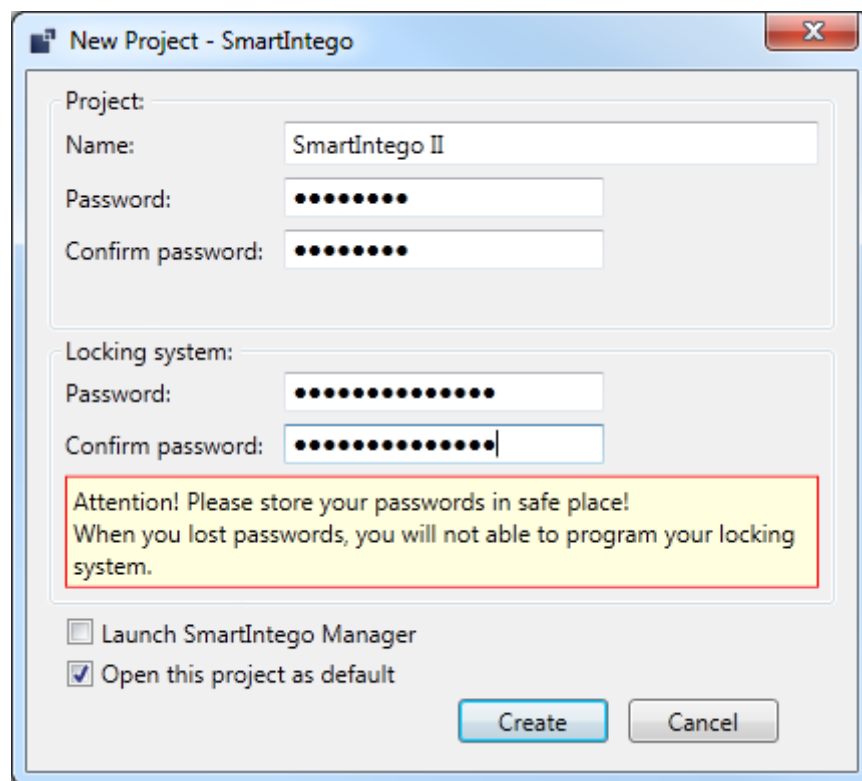
6 SmartIntego software installation and configuration

6.1 Installing the SmartIntego software

Install the latest version of the SmartIntego software.

6.2 Create new project

1. Run SmartIntego software as an administrator.
⇒ A wizard to create a new project will launch automatically.



2. 'Project - Name': Enter project name (example: SmartIntego II).
3. 'Project - Password': enter the password that you want to use to protect the project.
4. 'Project - Confirm password': re-enter the password to check.
5. 'Locking system - Password': enter the password which will be programmed into all devices.
6. 'Locking system - Confirm password': re-enter the password to check.

NOTICE

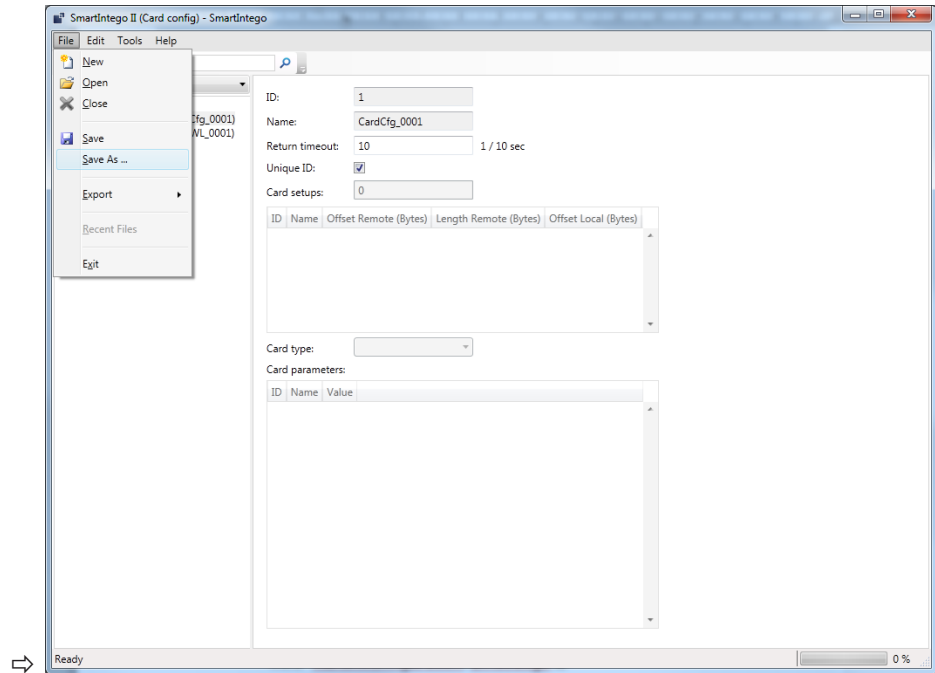
The 'Project - Password' and 'Locking system - Password' must be different from one another and must each consist of 8 characters.

System Manual SmartIntego

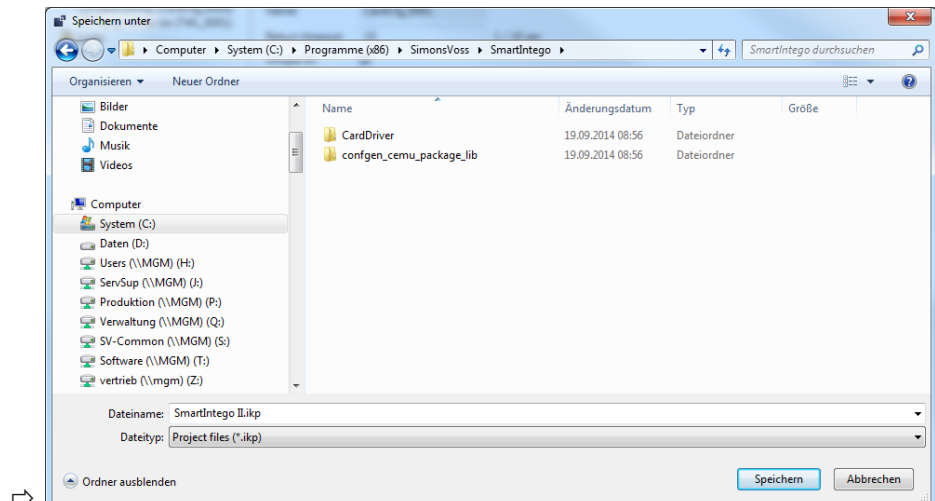
NOTICE

Activate 'Open this project as default' checkbox to open this project whenever you launch SmartIntego software.

7. Press 'Create' to continue.



8. Save .ikp file: we recommend saving the .ikp file in the SmartIntego installation directory.



System Manual SmartIntego

7 Card configuration: CardConfig (CardCfg001)

Click on 'Card config (CardCfg_0001)' to configure your cards (card configuration).

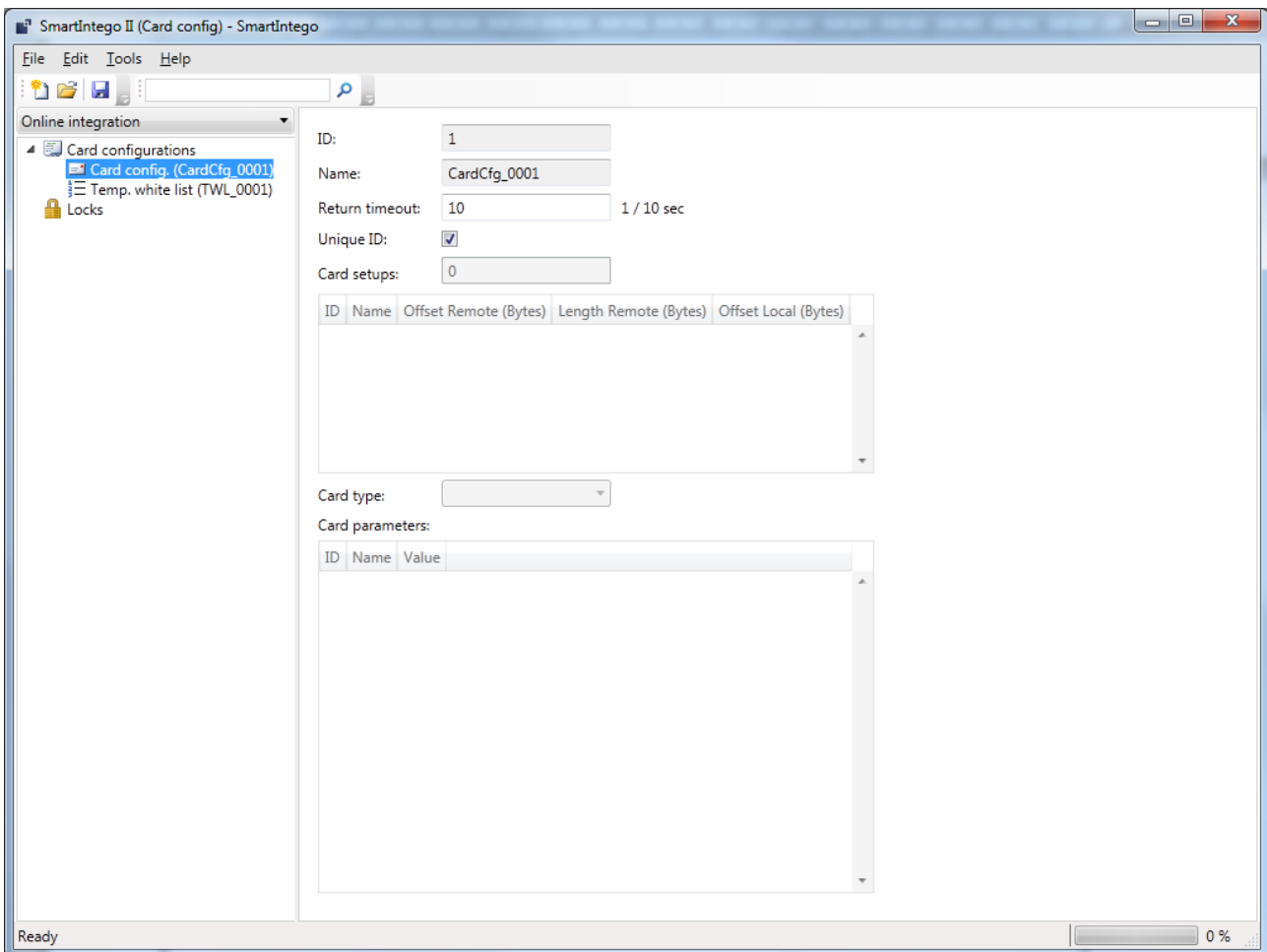
ID: not configurable

Name: not configurable

Return timeout: e.g. 10 --> 1/10 = 1 sec. – recommended setting: 30/10 = 3 sec.

Unique ID: activate the checkbox if a unique ID is being used. If you deactivate the checkbox, the configuration for MIFARE/MIFARE DESFire/ MIFARE Plus will appear.

Card setups: if a 'Unique ID' is selected, the checkboxes for the card settings are greyed out.



System Manual SmartIntego

7.1 Card configuration: Mifare Classic

Click on 'Card config (CardCfg_0001)' to configure your cards (card configuration).

ID: not configurable

Name: not configurable

Return timeout: e.g. 10 --> 1/10 = 1 sec.

Unique ID: if you deactivate the checkbox --> the configuration for MIFARE/MIFARE DESFire/MIFARE Plus will appear.

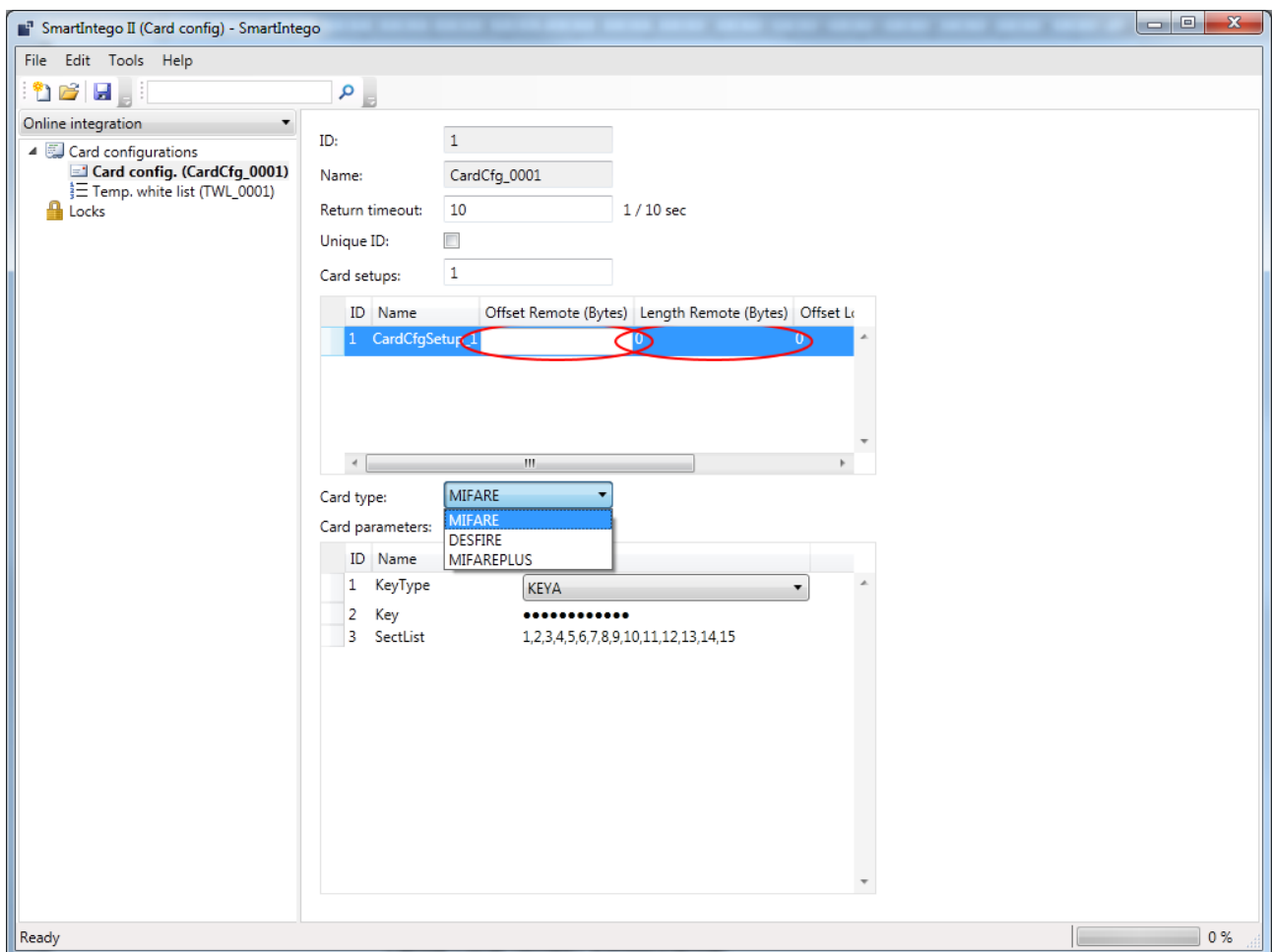
Card setups: you can configure up to five different MC/MD/MIFARE plus card settings.

ID: not configurable

Name: configurable

Red-highlighted areas indicate missing or incorrect information.

Please note: the system integrator must enter the card parameters.



System Manual SmartIntego

7.2 Card configuration: Mifare DESfire

Click on 'Card config (CardCfg_0001)' to configure your cards (card configuration).

ID: not configurable

Name: not configurable

Return timeout: e. g. 10 --> 1/10 = 1 sec.

Unique ID: if you deactivate the checkbox --> the configuration for MIFARE/ MIFARE DESFire/MIFARE Plus will appear.

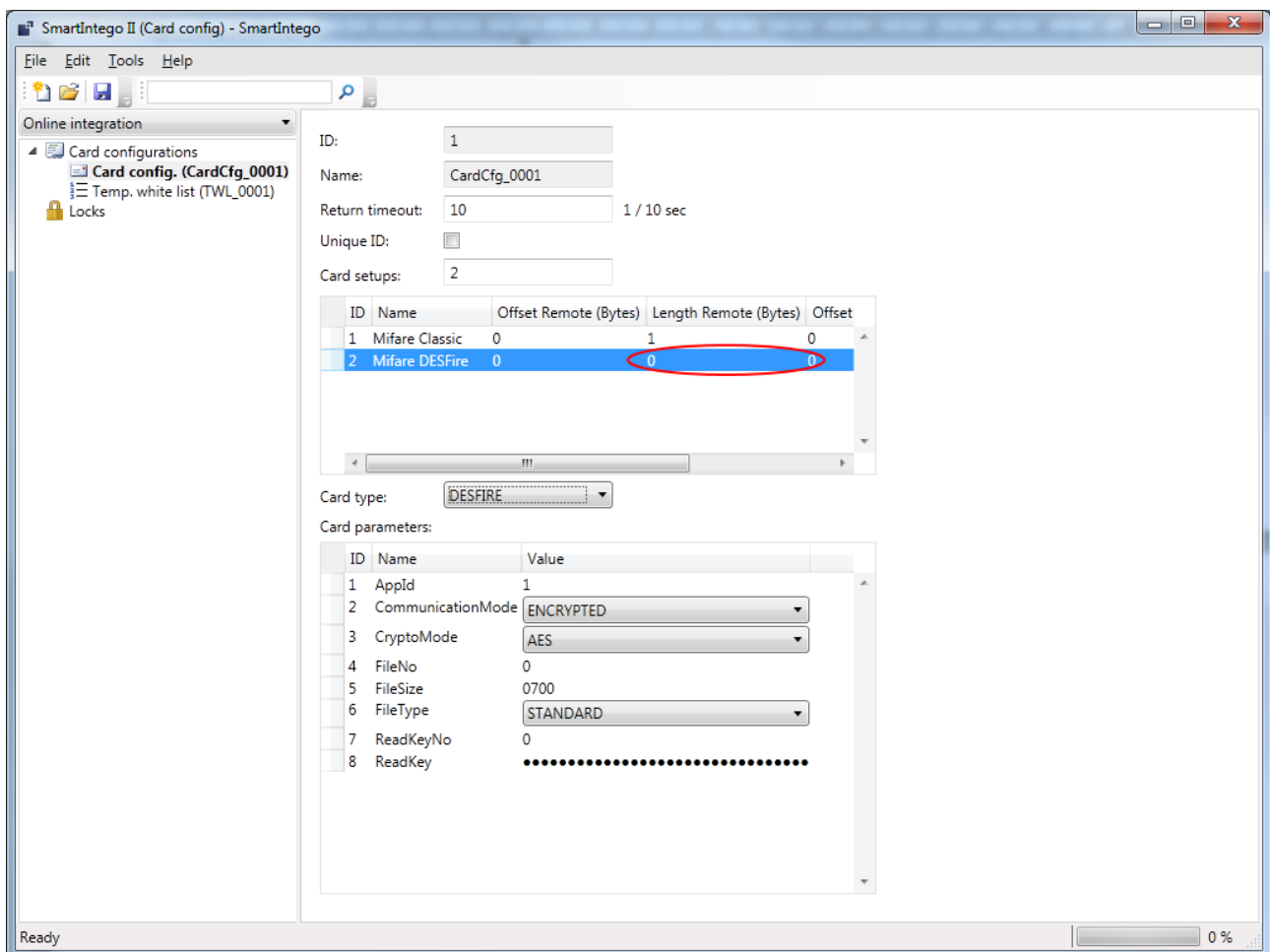
Card settings: you can configure up to five different MC, MD or MIFARE plus card settings.

ID: not configurable

Name: configurable

Red-highlighted areas indicate missing or incorrect information.

Please note: the system integrator must enter the card parameters.



System Manual SmartIntego

7.3 Card configuration: Mifare Plus

Click on 'Card config (CardCfg_0001)' to configure your cards (card configuration).

ID: not configurable

Name: not configurable

Return timeout: e. g. 10 --> 1/10 = 1 sec.

Unique ID: if you deactivate the checkbox --> the configuration for MIFARE/MIFARE DESFire/MIFARE Plus will appear.

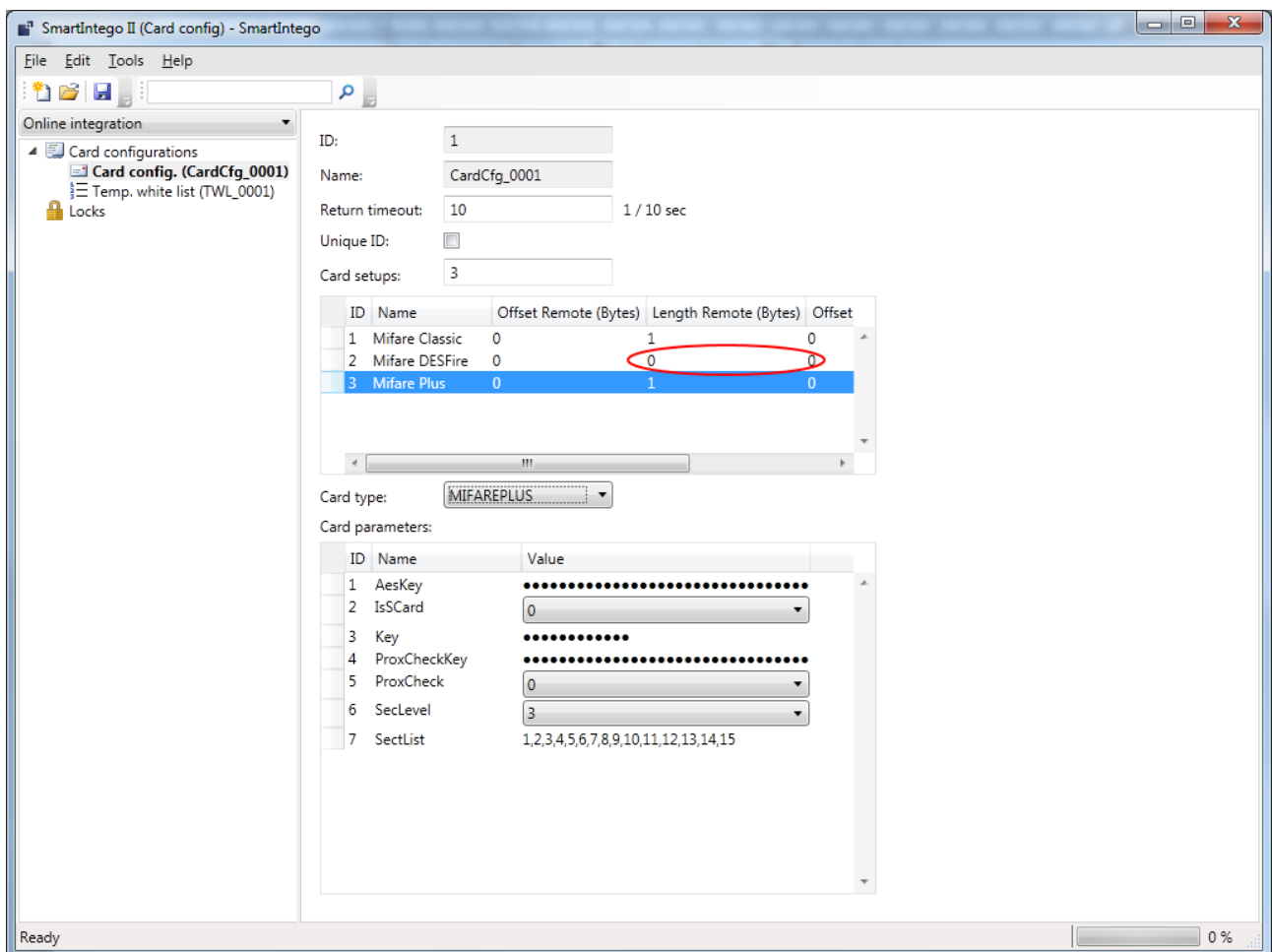
Card settings: you can configure up to five different MC, MD or MIFARE plus card settings.

ID: not configurable

Name: configurable

Red-highlighted areas indicate missing or incorrect information.

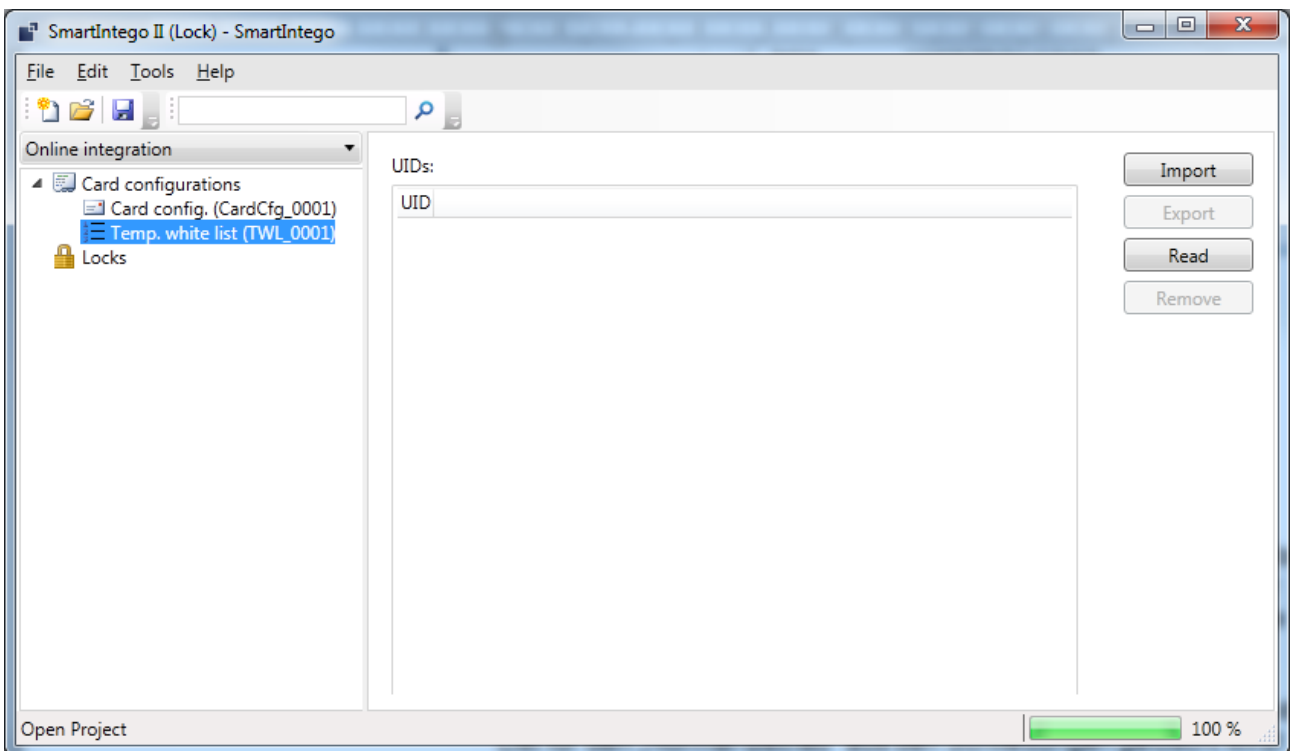
Please note: the system integrator must enter the card parameters.



System Manual SmartIntego

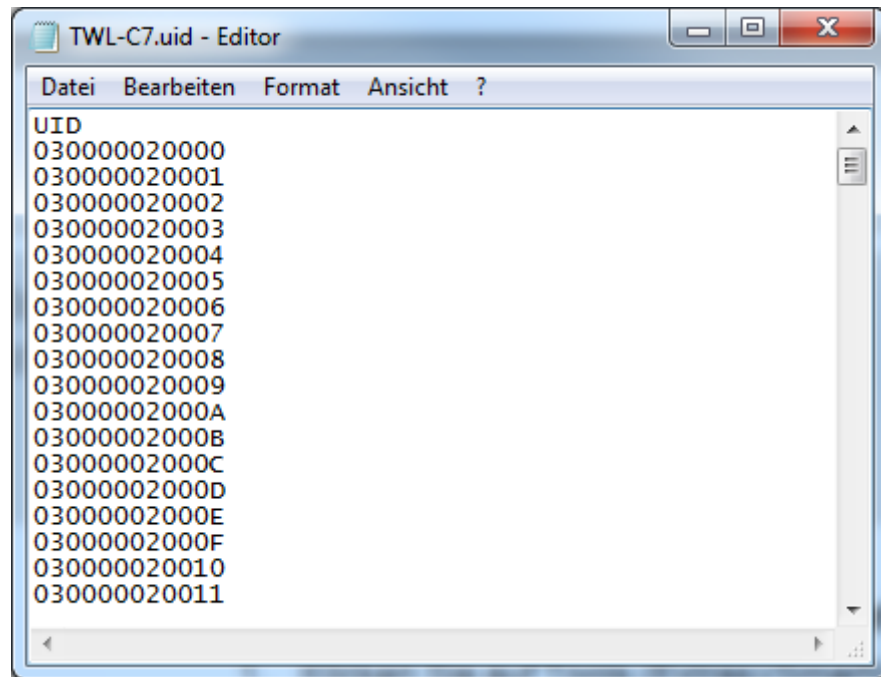
8 Temporary white list

You can use this function to create a temporary white list for all locking devices. This function only supports Unique ID mode. It gives a locking authorisation for all doors to all ID media which feature on the white list with their UID. This function can be used during initial operation if there is no IT infrastructure. The system integrator must ensure that this temporary white list is deleted from the locking devices for normal operation. A maximum of 128 white list entries can be managed.

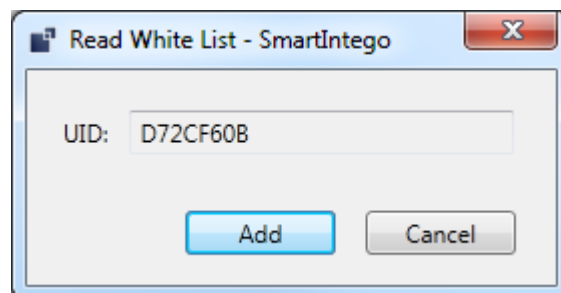


System Manual SmartIntego

You can use the import function to add unique IDs to the temporary white list.



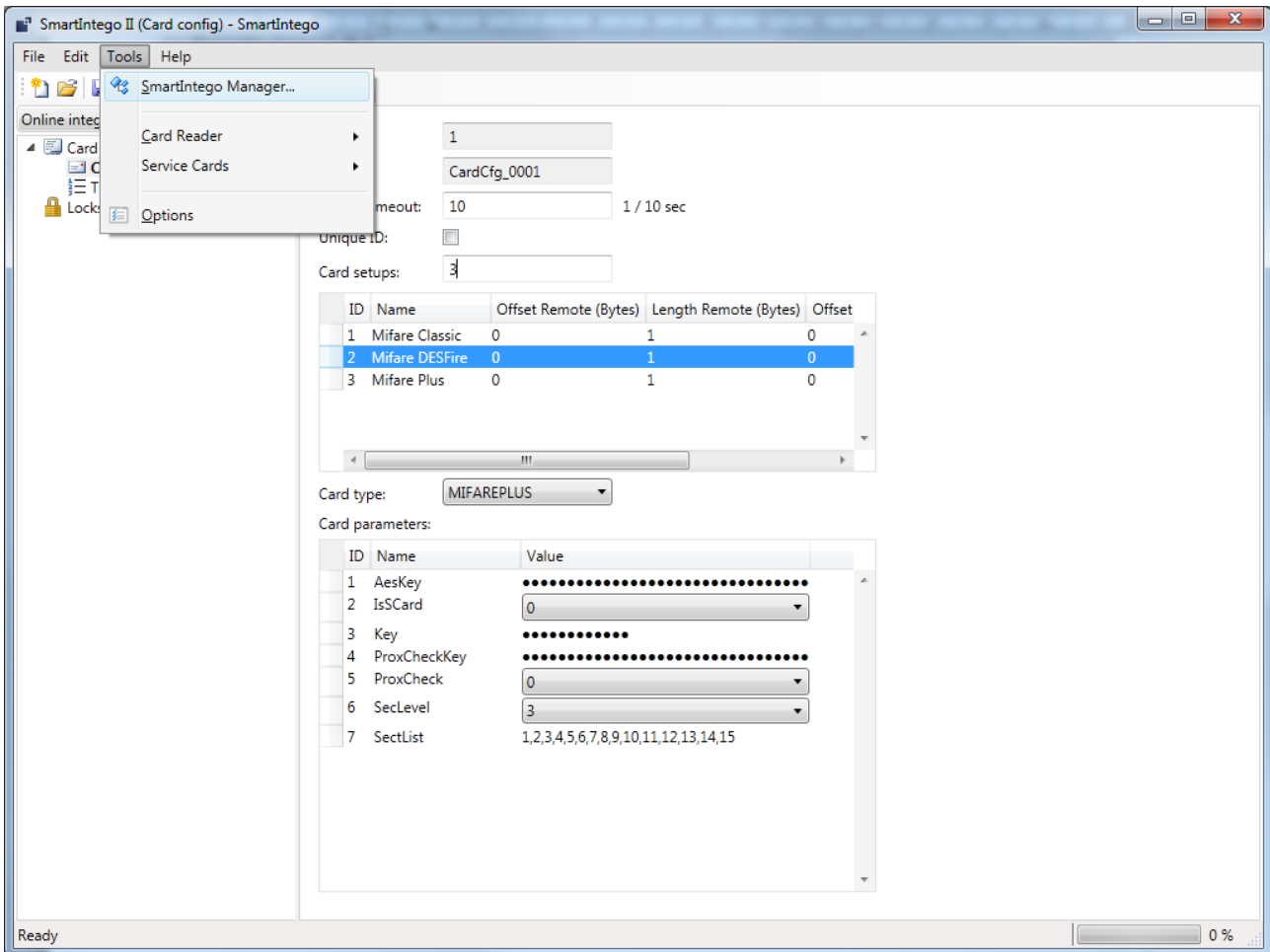
The 'UID' must be in the first row. You can use the SimonsVoss programming device or the 'Read' function to add a UID to the white list on site. You can export the white list that you created --> *.uid 'Export'. You can use 'Remove' to delete any added entries.



System Manual SmartIntego

9 Radio network configuration

1. Click on Tools/SmartIntego Manager to launch SmartIntego Manager and configure the radio network settings.



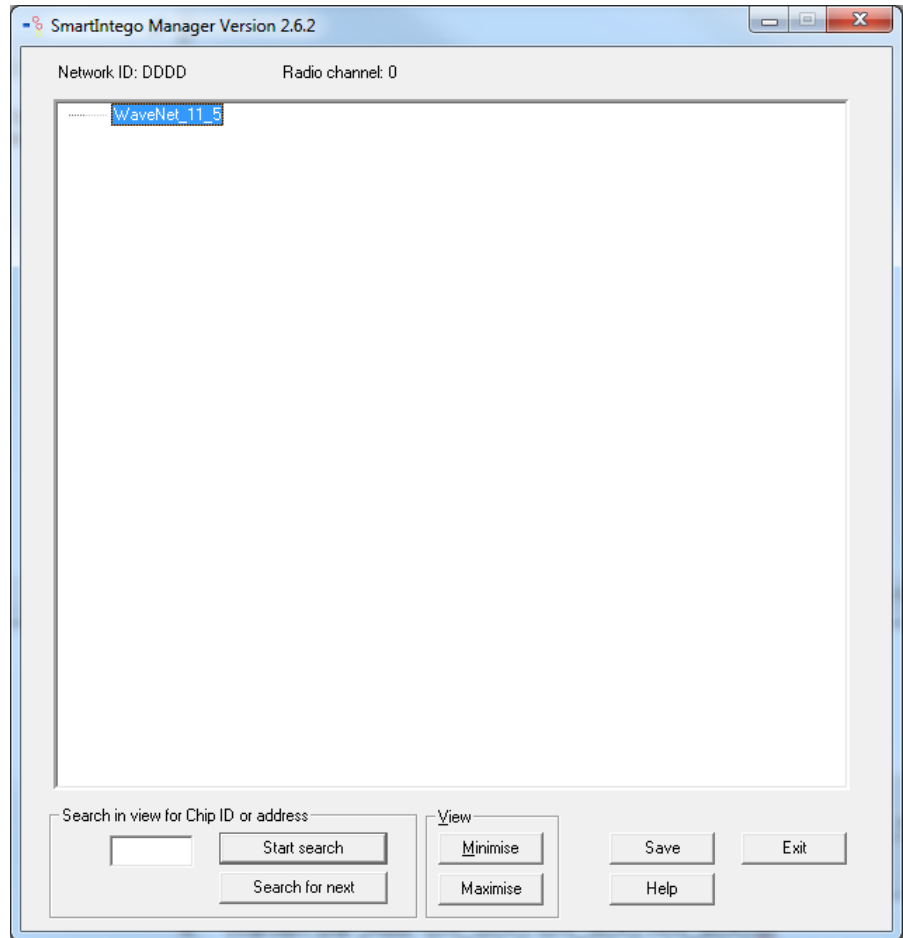
2. Enter the password for network components.

NOTICE

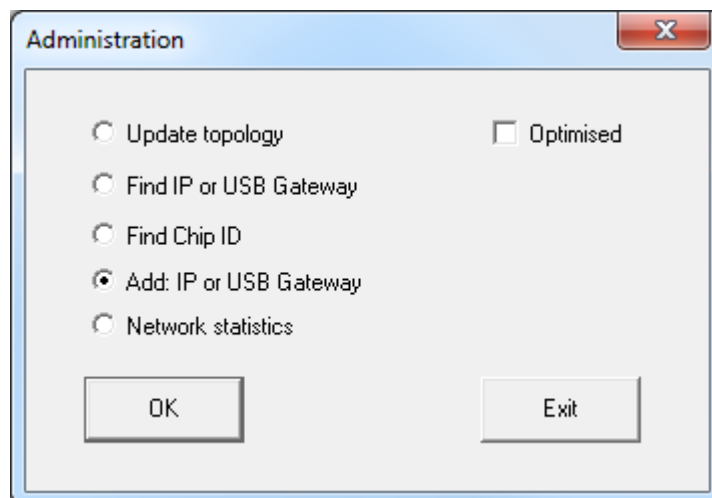
Keep this password in a secure place. SimonsVoss Technologies GmbH is unable to re-establish the password if it is lost.

3. Right-click on 'WaveNet_11_5'.

System Manual SmartIntego

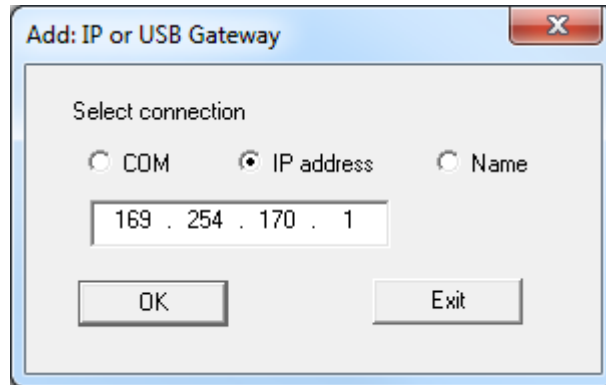


- 4. Select 'Add: IP or USB Gateway' to add a GatewayNode in SmartIntego Manager and then click on 'OK'.



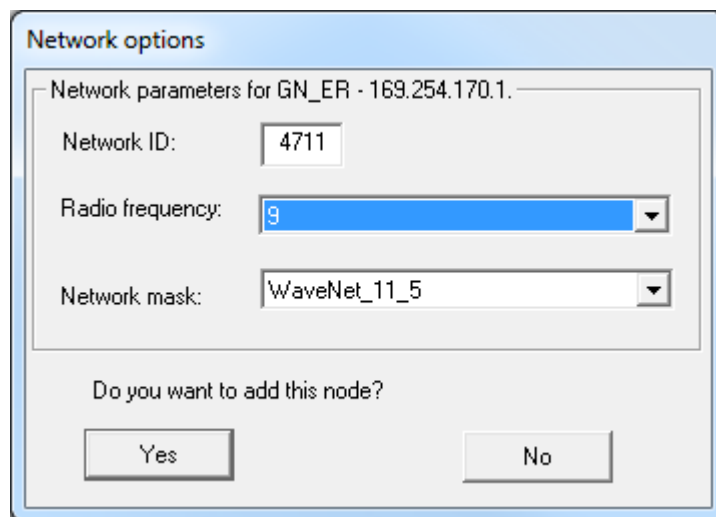
- 5. Select 'IP address' and enter the IP address for the GatewayNode.

System Manual SmartIntego



⇒

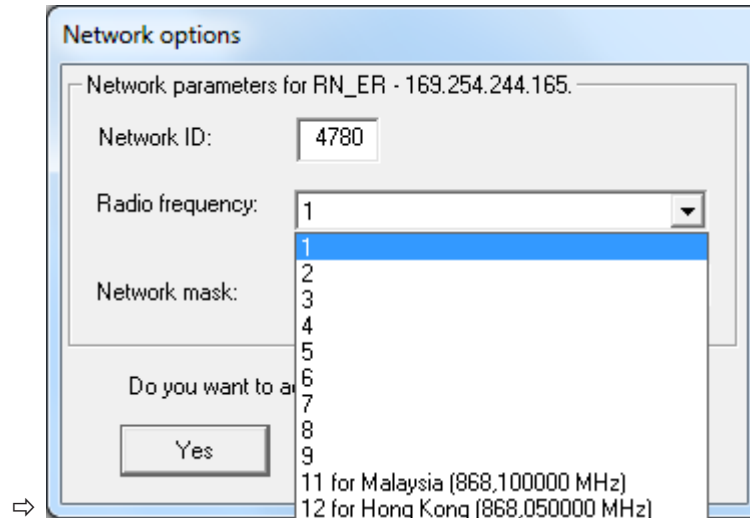
6. Network ID: e.g. the software has randomly selected 4711 as the network ID. Used in conjunction with the password, this network ID provides a unique designation for your radio network.



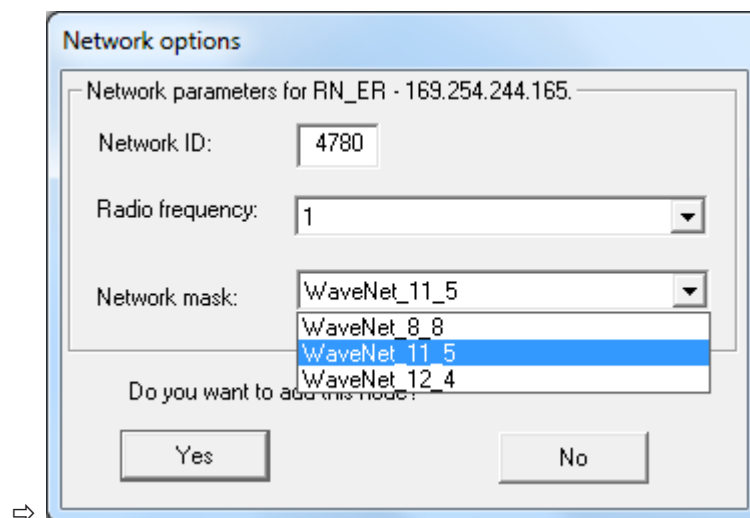
⇒

7. This is where you can select the frequency of your radio network. Ensure that no other devices use the same frequency since this can affect the performance of all associated networks components. Calculating the frequency: $868.1 \text{ MHz} + n * 0.2$ ($n=1,2,\dots,9$)

System Manual SmartIntego

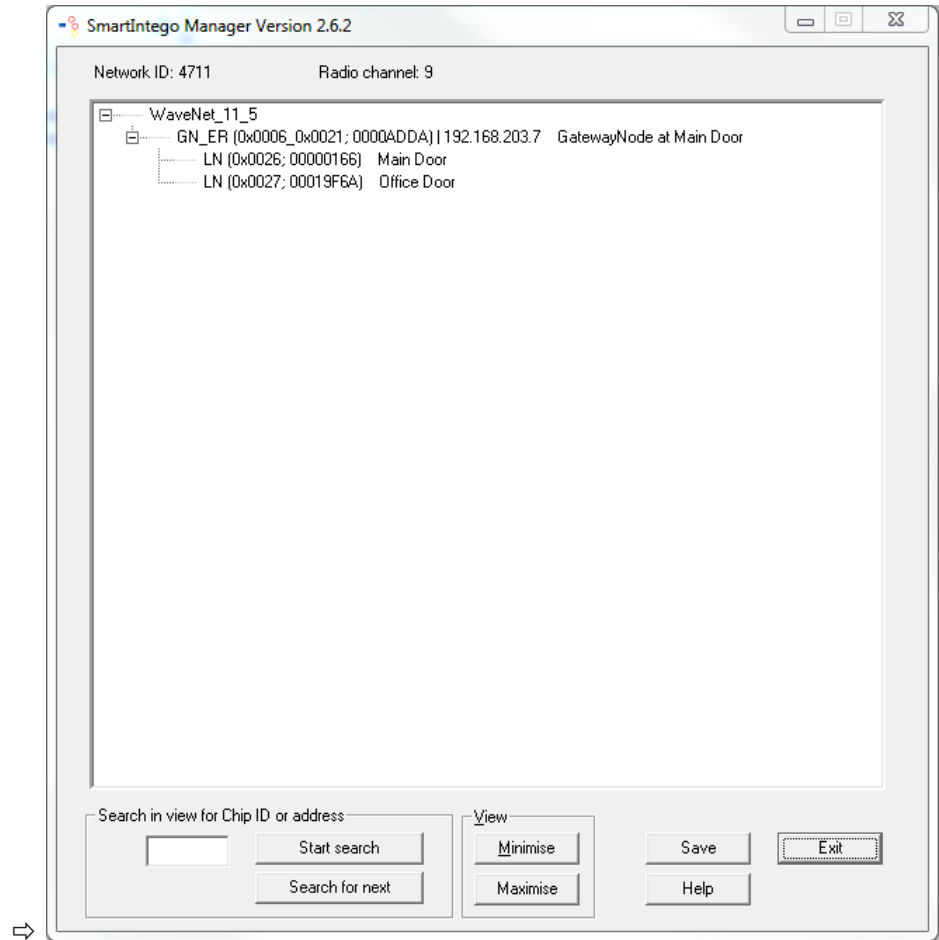


- 8. Network mask: you must select the 11_5 network mask for SmartIntego. Click on 'Yes' to add this node. This option is no longer available once the settings have been made. It will not appear again until you reset or delete all devices and set up a new radio network.



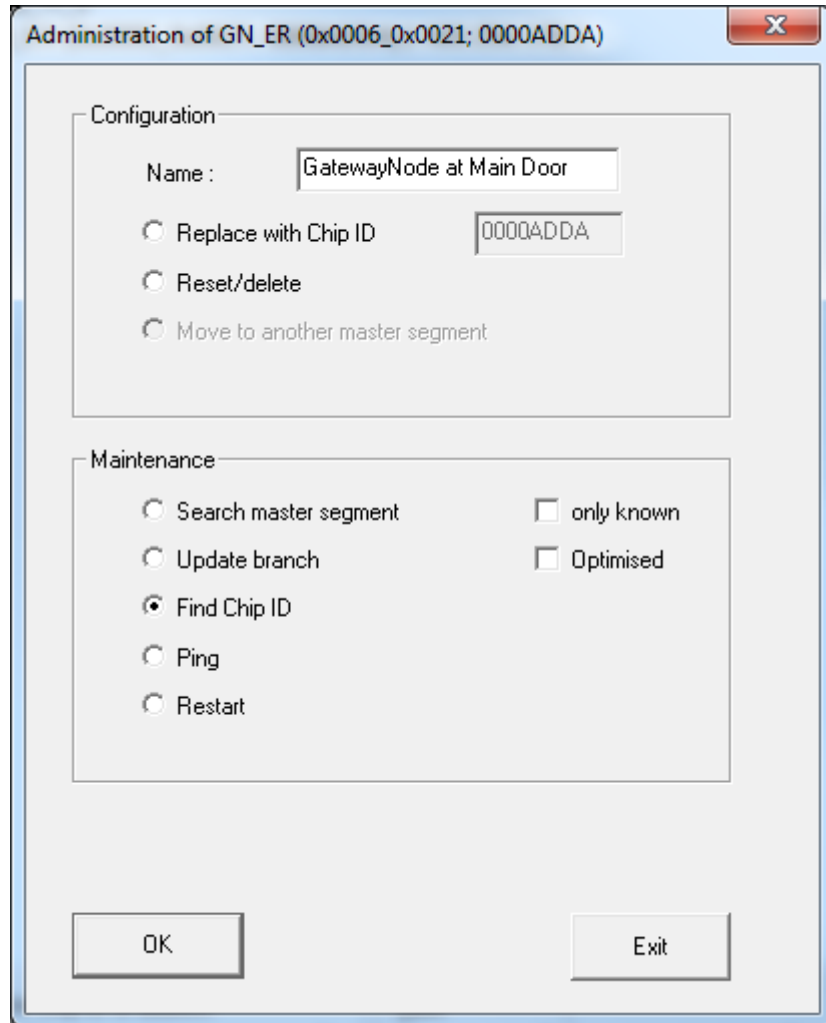
- 9. The window displays the successfully configured GatewayNode. Right-click to select the GatewayNode (GN).

System Manual SmartIntego

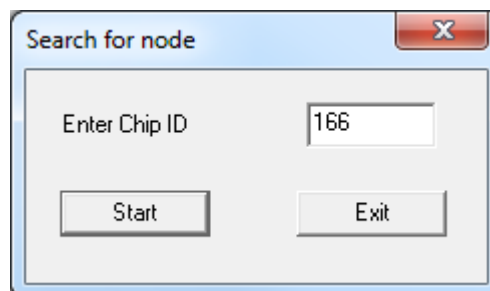


10. Enter the name to describe the door (e.g. GatewayNode at main door). Select 'Find chip ID' and click on 'OK'. The newly added GatewayNodes are displayed after you click on 'Exit'.

System Manual SmartIntego

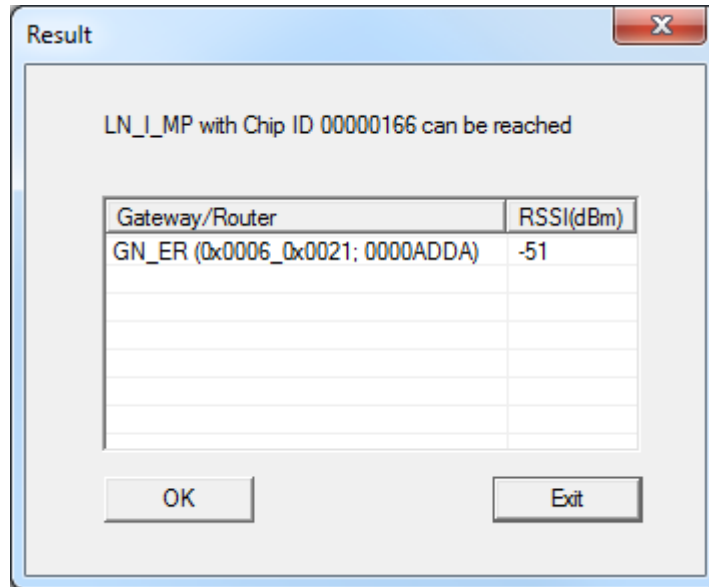


- ⇒
- Enter the chip ID featured on the label on the locking cylinder packaging or inside the SmartHandle packaging --> e.g. 166 and the ID to be assigned to the GatewayNode and click on 'Start'. (Enter the chip ID as an 8-digit number, e.g. 00000166 for chip ID 166.)



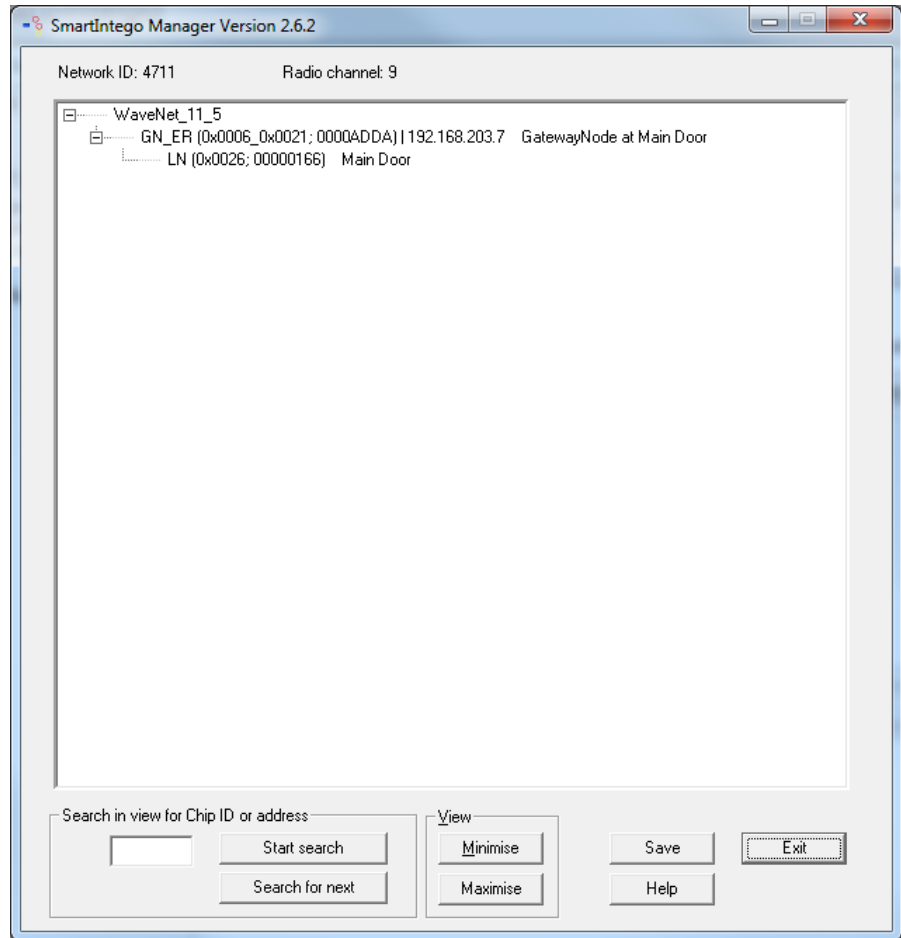
- ⇒
- Select the input and click on 'OK'.

System Manual SmartIntego



- ⇒
- The image shows a successfully configured segment. Use the same procedure for any other devices. Click on 'Save' to continue once all nodes have been configured successfully.

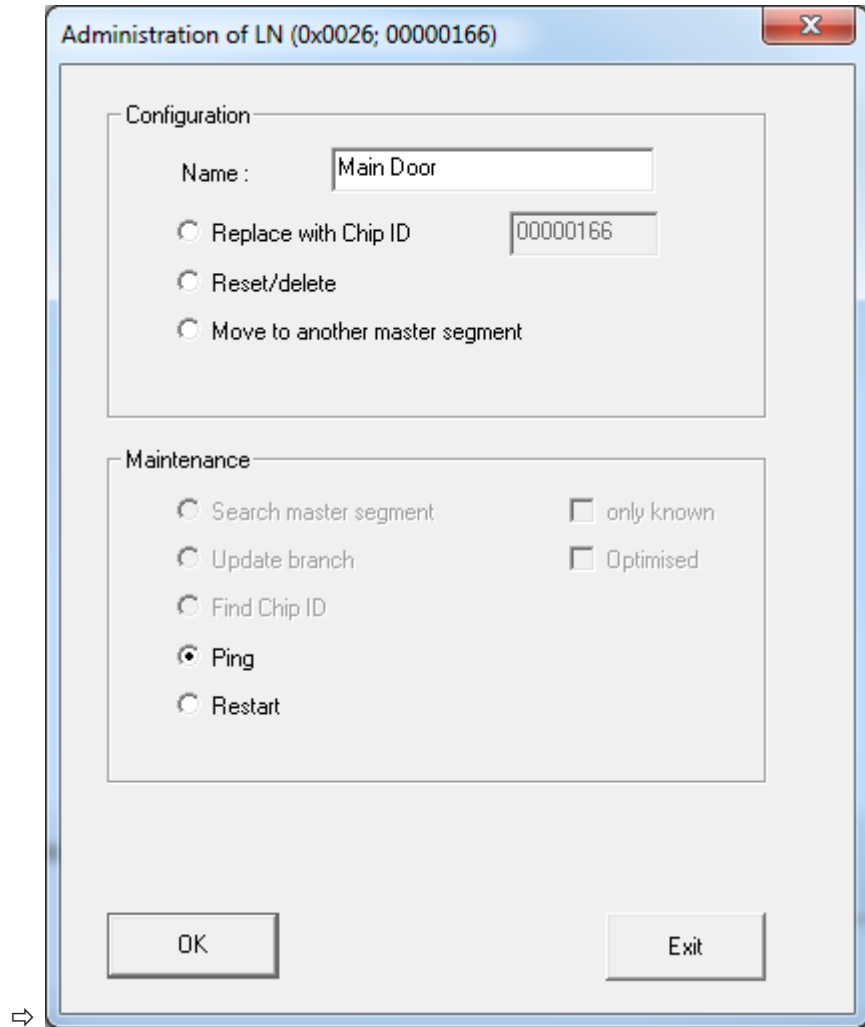
System Manual SmartIntego



⇒
⇒

- Right-click on the newly added LockNode. This is where you need to enter a precise door designation in the 'Name' field.

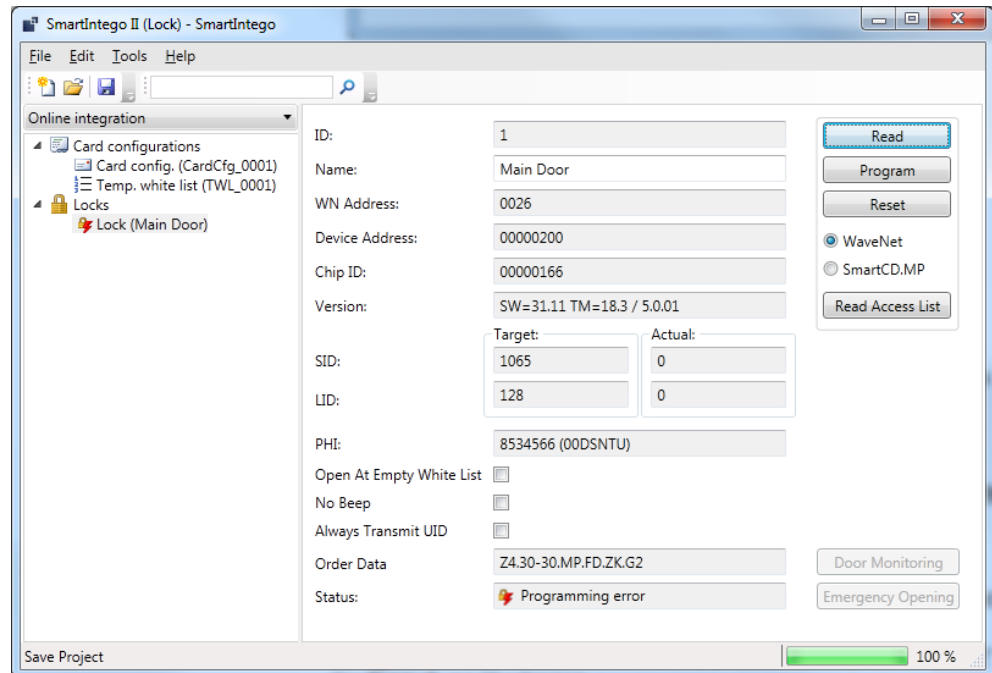
System Manual SmartIntego



System Manual

SmartIntego

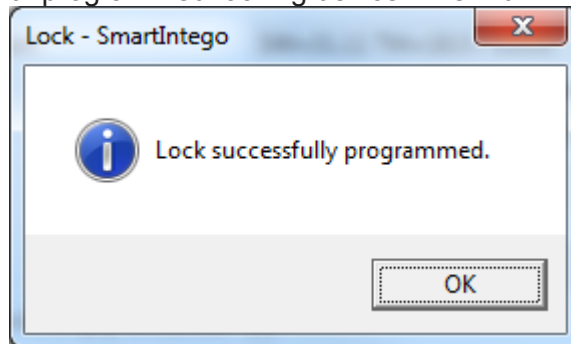
10 Configuration of locks (locking devices)



- Click on the newly added LockNode. This is where you need to enter a precise door designation in the 'Name' field. The name is displayed here if a name has already been assigned in SmartIntego Manager. You must not change the name in such a case.
- Double-click on 'Locks' (locking devices) --> Lock (Main Door)
- ID: not configurable
- Name: configurable
- WN address: not configurable
- Device address: not configurable
- Chip ID: not configurable
- Version: not configurable
- Target --> SID (System ID) / LID (Lock ID): not configurable
- Actual: greater than zero --> locking device is programmed with the values in 'Target'
- PHI (physical hardware identifier): not configurable; issued in the factory.
- Open at Empty White List: If you select this function for a programmed locking device, an ID medium containing a readable dataset can operate the locking device. This function is not available in UID mode.
- No beep: the audible signals in the locking device are deactivated.
- Always Transmit UID: the UID is still transmitted in the locking device's 'Reader event' even if the ID medium has a configured dataset.

System Manual SmartIntego

- Order data (order code): not configurable
- Status: yellow programming flash --> programming demand; red programming flash --> it was not possible to configure the locking device.
- OK --> no further measures required
- Read: if 'WaveNet' is selected, the locking device can be selected via the radio network. If 'SmartCD.MP' is selected, the locking device can be read using the connected programming device.
- Programme: if 'WaveNet' is selected, the locking device can be programmed via the radio network.
- You need to click on 'Read' first if you would like to programme an unprogrammed locking device. Then run 'Programme'.



- Re-set: the locking device is reset.

System Manual SmartIntego

11 SmartHandle DoorMonitoring with SimonsVoss sensor system

A SmartHandle with the DoorMonitoring function allows status messages to be transmitted from the door to the system integrator's application via the radio network.

Status messages with the SimonsVoss sensor system:

18	Door open
19	Door closed
20	Door unlocked
21	Door locked

You need to order the special sensor system together with the SmartHandle. You should select the version for Euro Profile cylinder. The sensor system comprises a bolt sensor for monitoring purposes --> door locked or unlocked and a fastening screw sensor --> door open/closed. Both sensors must be installed in the mortise lock. Special, self-locking anti-panic mortise locks are also needed. These are not ordered from SimonsVoss and are not included in the supplied package. There is a list of all mortise locks tested and approved by SimonsVoss which are suitable for the DoorMonitoring function.

www.smartintego.com

Only mortise locks tested and approved by SimonsVoss may be used for the DoorMonitoring function.

System Manual SmartIntego

12 SmartHandle DoorMonitoring with mortise lock sensor system

A SmartHandle with the DoorMonitoring function allows status messages to be transmitted from the door to the system integrator's application via the radio network.

Mortise lock sensor system status messages:

22	Door open
23	Door closed
24	Door unlocked
25	Door locked

You need to order the special sensor system together with the SmartHandle. You should select the version for Euro Profile cylinder. The sensor system comprises a bolt sensor for monitoring purposes --> door locked or unlocked and a fastening screw sensor --> door open/closed. Both sensors must be installed in the mortise lock. Special, self-locking anti-panic mortise locks are also needed. These are not ordered from SimonsVoss and are not included in the supplied package. There is a list of all mortise locks tested and approved by SimonsVoss which are suitable for the DoorMonitoring function.

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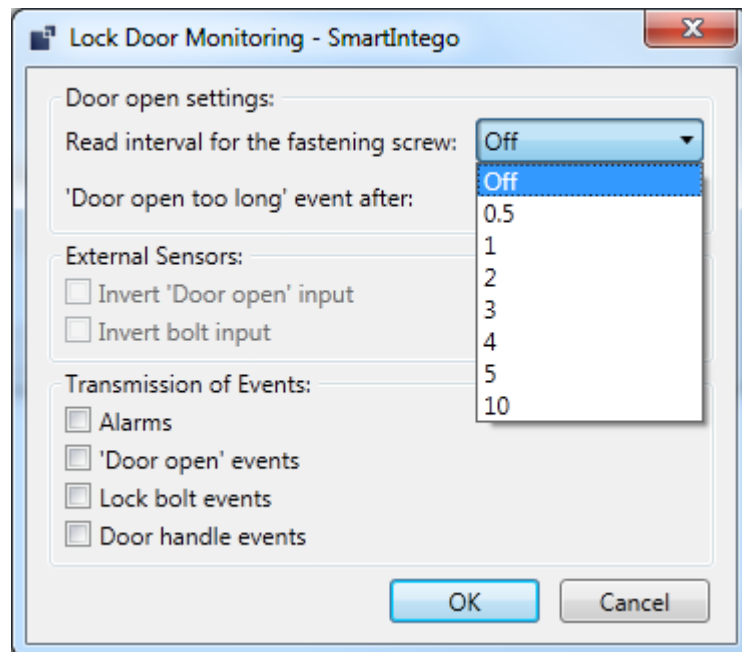
Only mortise locks tested and approved by SimonsVoss may be used for the DoorMonitoring function.

System Manual SmartIntego

13 DoorMonitoring configuration

13.1 Door opening settings

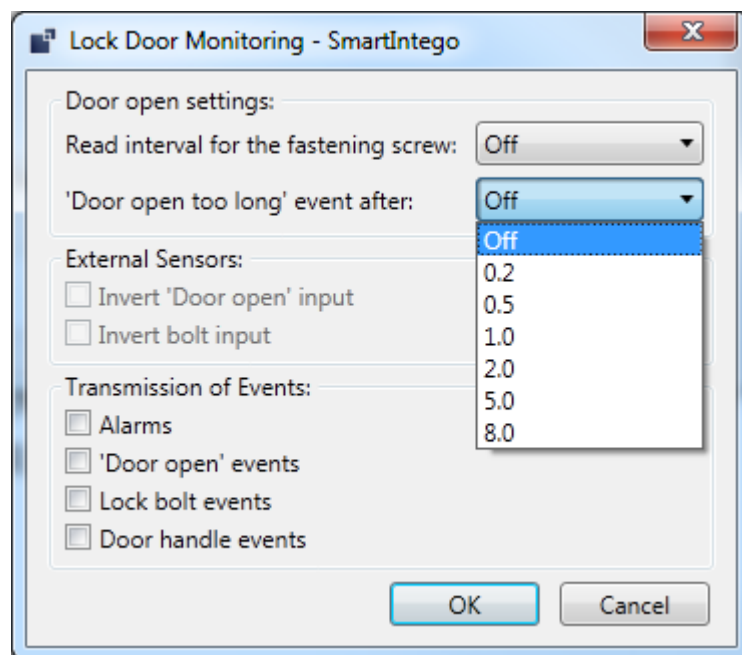
Read interval for the fastening screw --> this is where you can set the repeat interval to the second for the fastening screw sensor. The electronics in the SmartHandle checks the sensor within the pre-set second interval, thus allowing the status messages --> Door open/closed to be evaluated and transmitted.



System Manual SmartIntego

13.2 Door opening settings

Door open too long event after: this is where you can set a 'Door open too long' interval in minutes for the fastening screw sensor. If a door is open for longer than the pre-set interval, SmartHandle evaluates and transmits the incident.



The fastening screw sensor evaluates the 'Door opening settings'.

System Manual SmartIntego

13.3 External sensors

Invert "Door open" input --> this is where you can invert the electric signals on the SmartHandle which the sensor provides to the mortise lock. The signals indicate whether the door is open or closed.

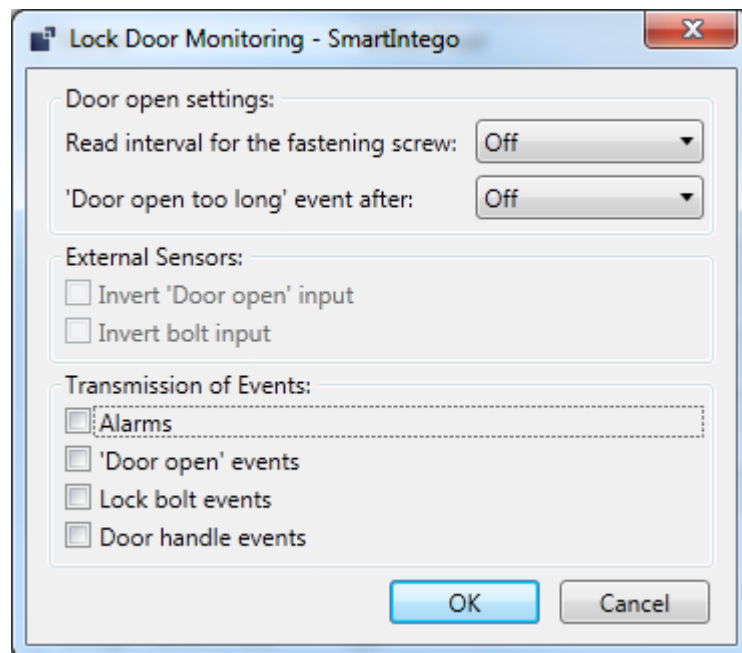
Checkbox selected

Checkbox not selected

Invert bolt input --> this is where you can invert the electric signals on the SmartHandle which the sensor provides to the mortise lock. The signals indicate whether the door is locked or unlocked.

Checkbox selected

Checkbox not selected



System Manual SmartIntego

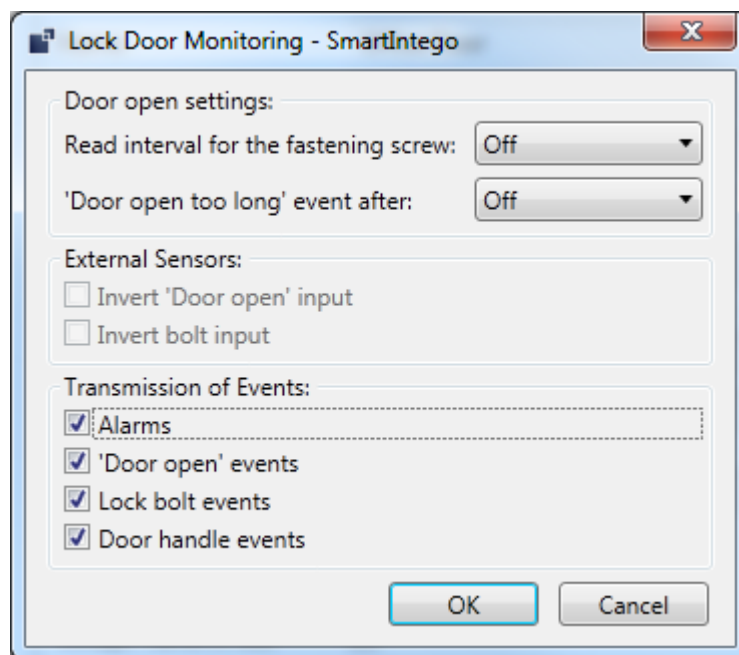
13.4 Transmission of Events

Alarms: the SmartHandle will trigger an alarm event if someone tries to manipulate the fastening screw sensor.

Door open events: Door open/closed --> SmartHandle event

Lock bolt events: Door locked/unlocked --> SmartHandle event

Door handle events: a sensor in the SmartHandle monitors the inside handle actuation. This allows the direction of use from the inside to the outside to be transmitted to the system integrator – no ID medium booking is made on the Smart Handle card reader --> the inside handle on the SmartHandle is always engaged ready for use.



All events are transmitted to the system integrator when the SmartHandle or radio network is selected.

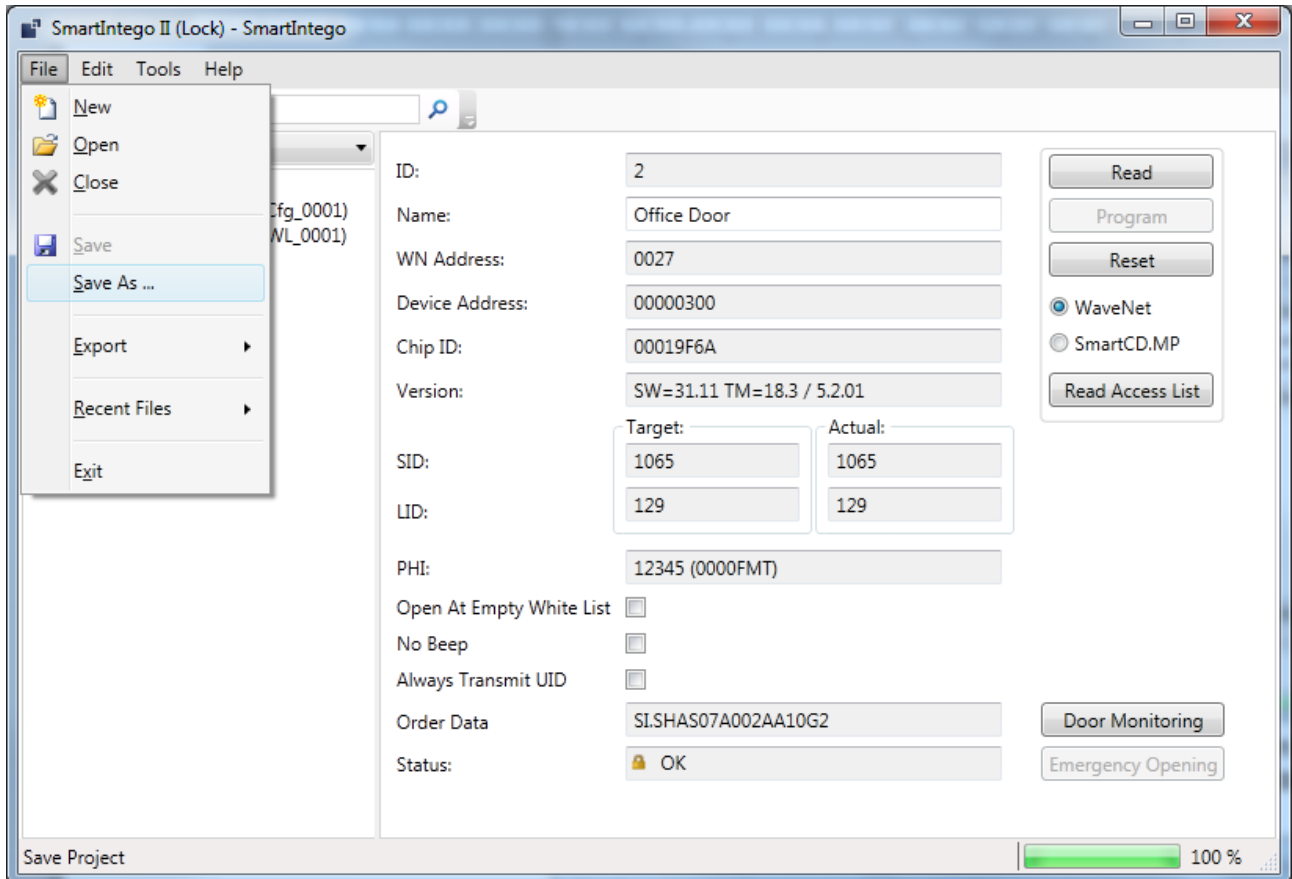
System Manual SmartIntego

14 SmartIntego emergency opening

You can use the connected programming device (SI.SMARTCD) to activate an emergency opening on a previously selected or scanned locking device.

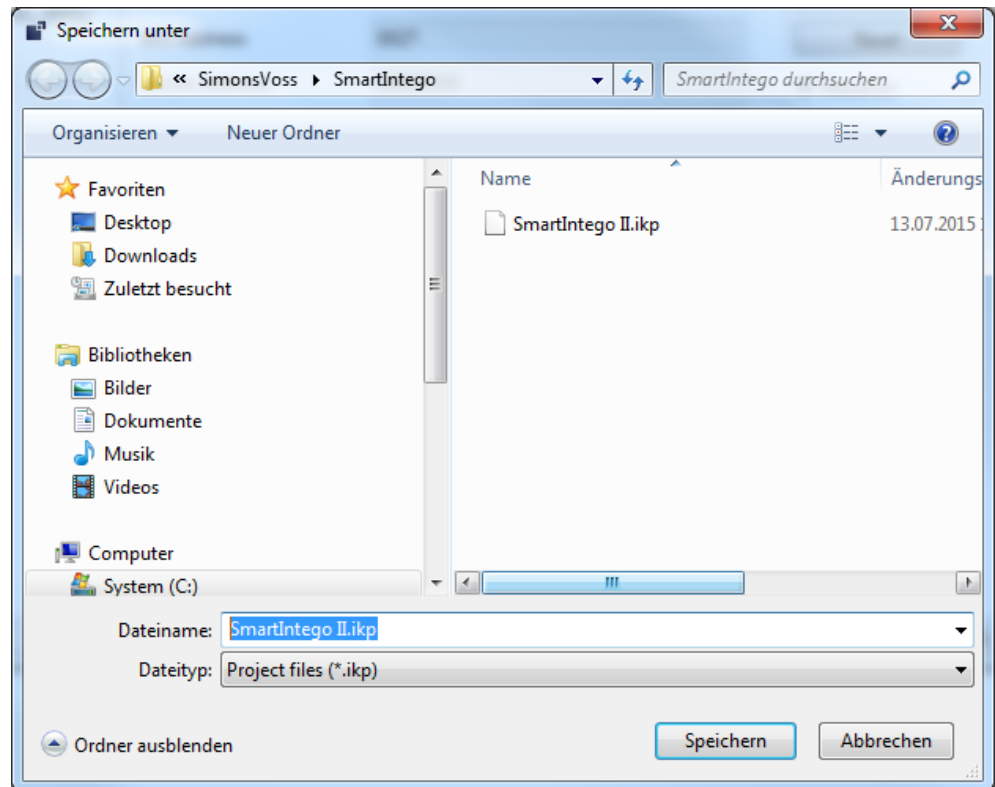
System Manual SmartIntego

15 SmartIntego software functions



System Manual SmartIntego

Save as: all project data or project configurations are saved in the .ikp file and handed to the system integrator.



System Manual SmartIntego

Export --> configuration data: a .csv file is exported and handed to the system integrator.

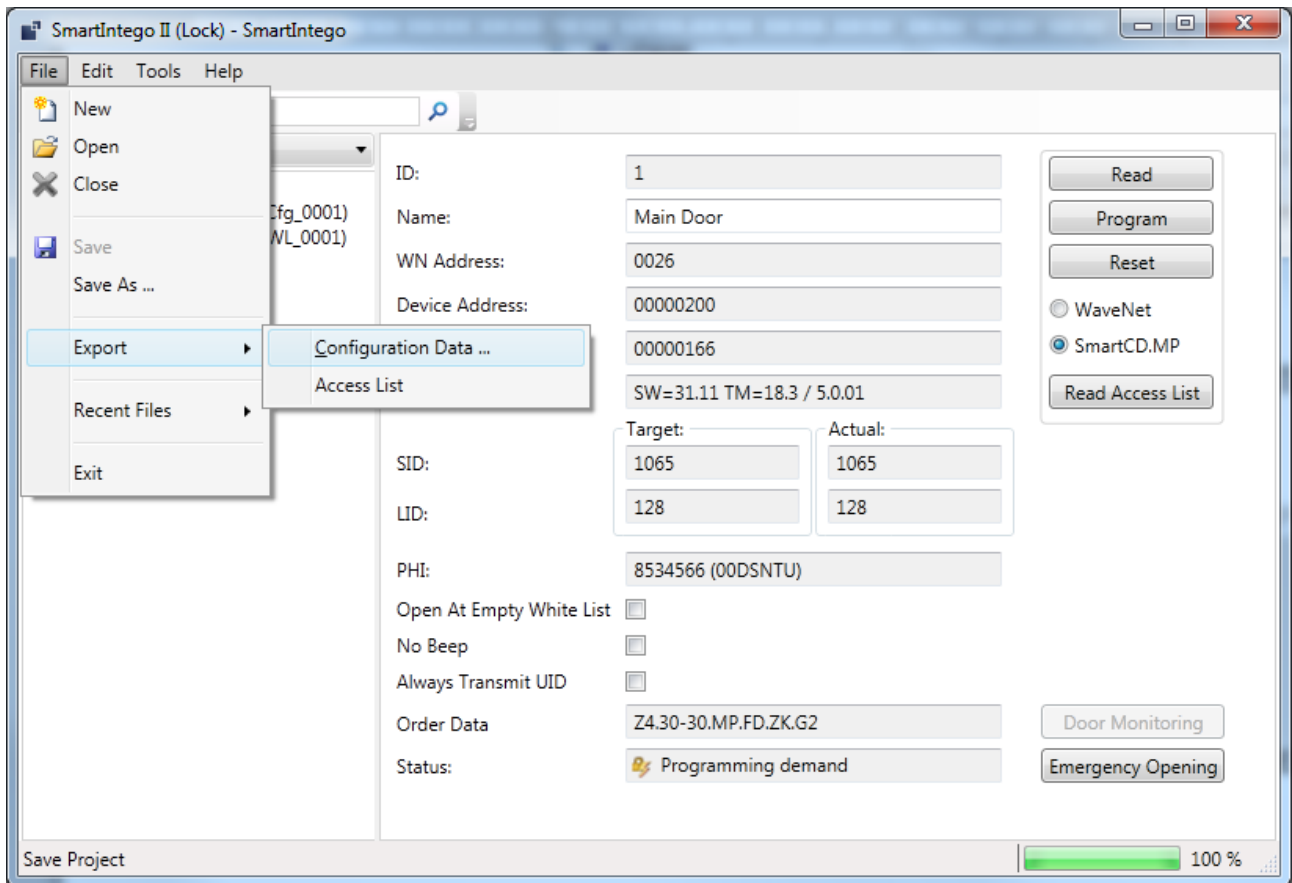


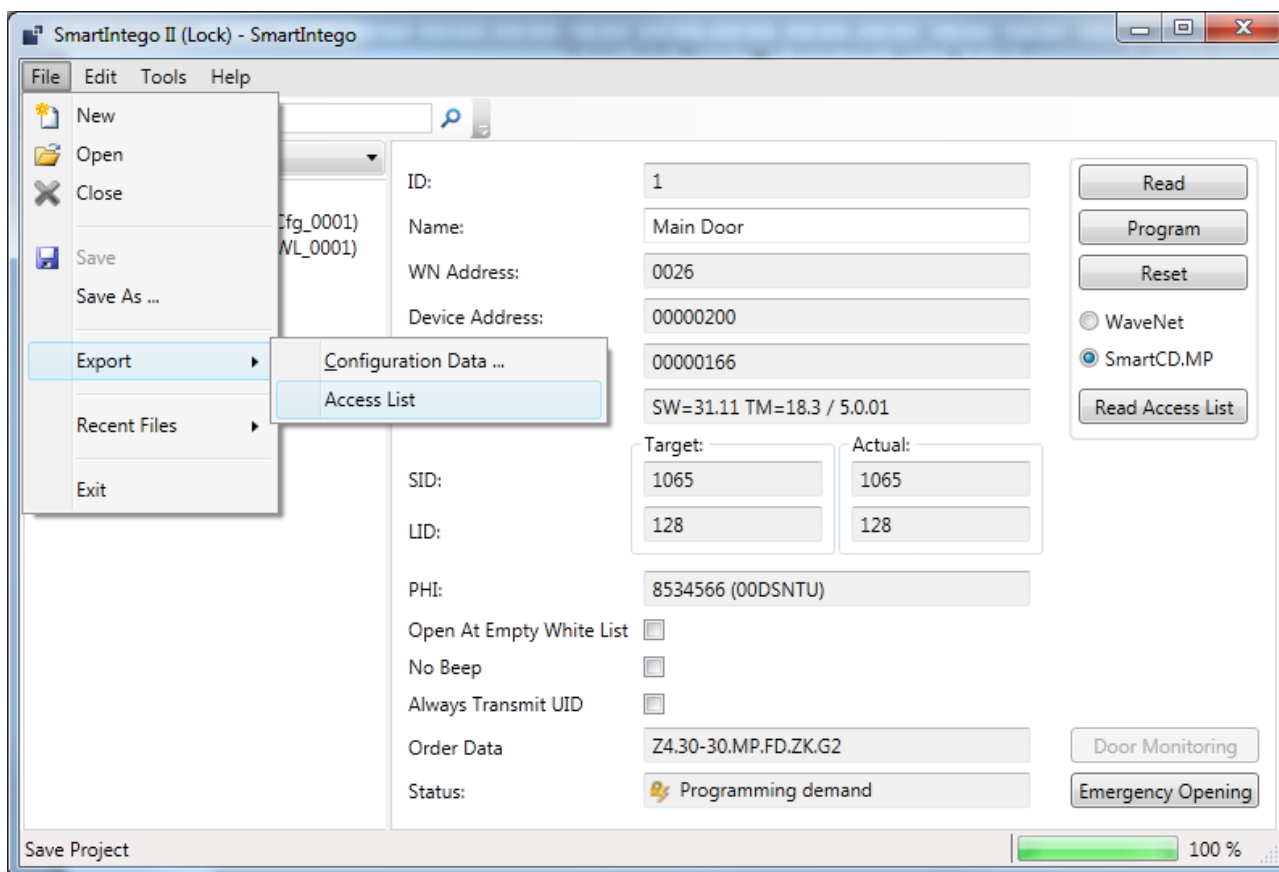
Table contents --> configuration data

node type	device address	wn address	connection details	chipID	nick name
GN_ER	0x00000100	0x0021	192.168.203.7	0000ADDA	GatewayNode at Main Door
LN_I_MP	0x00000200	0x0026	192.168.203.7	166	Main Door
LN_I_SH	0x00000300	0x0027	192.168.203.7	00019F6A	Office Door

System Manual SmartIntego

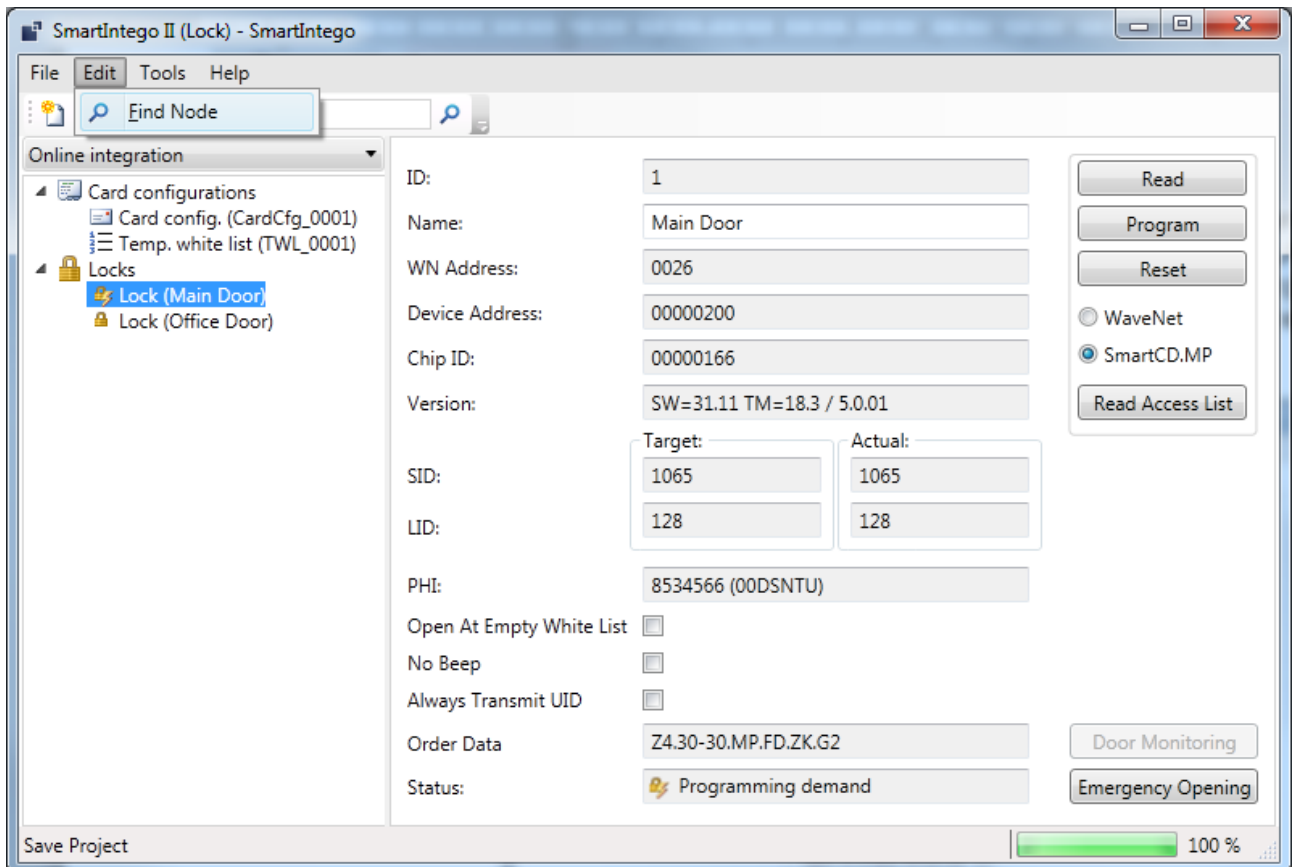
phi	phi string	fw lock	fw node	equipment
8534566	00DSNTU	5.0.01	SW=31.11 TM=18.3	Z4.30-30.MP. FD.ZK.G2
12345	0000FMT	05.02.2001	SW=31.11 TM=18.3	SI.SHAS07A0 02AA10G2

Access List: the access lists previously read from the locking devices (white list entries in the event of a LAN/RS485 network failure) or entries from the temporary white list can be supplied in a .csv file. The access lists are read from the locking devices on site using the SimonsVoss SI.SMARTCD programming device.



System Manual SmartIntego

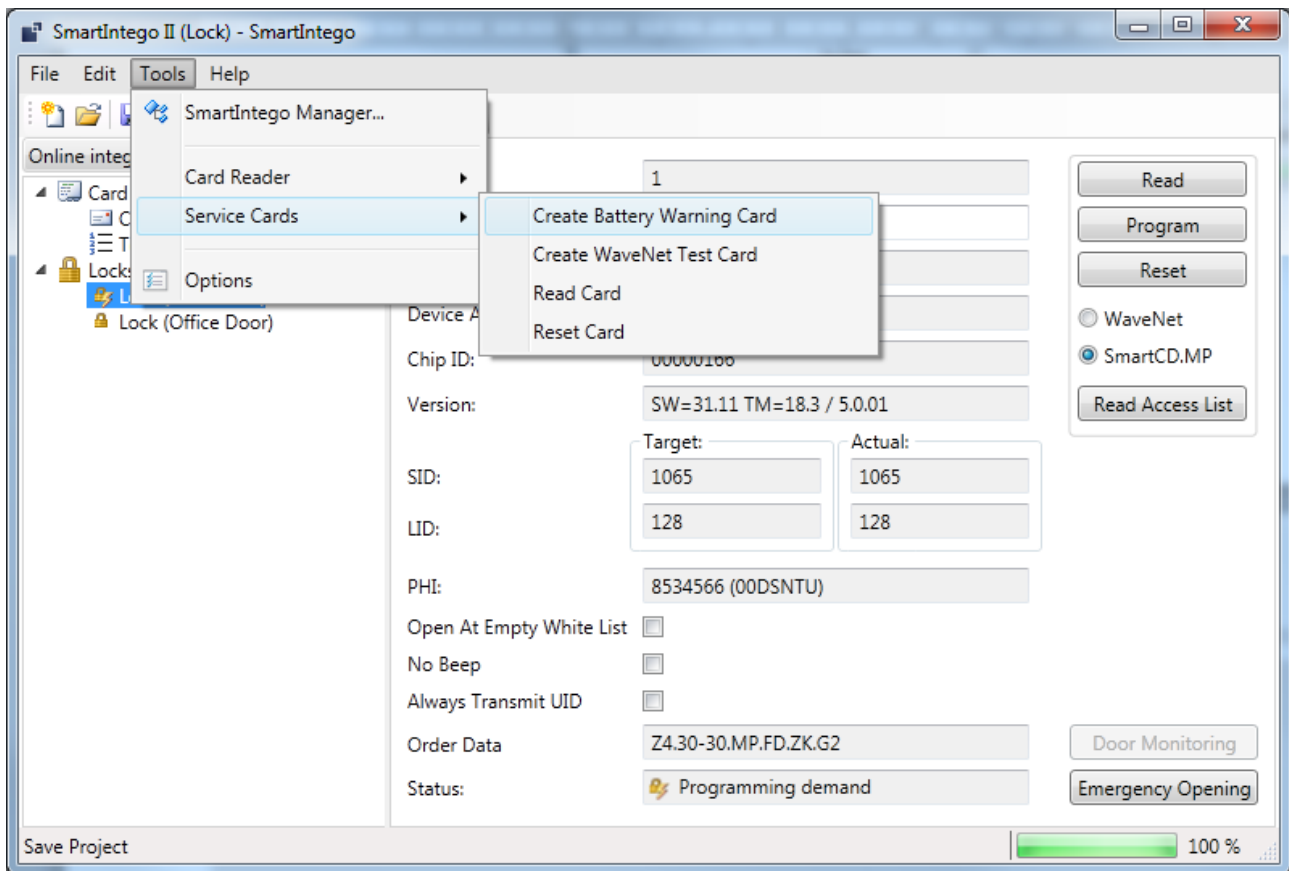
Edit --> Find node: you can use the chip ID to search for nodes in the network topology. You can search by name. If the chip ID has been overwritten with a different name, the search will not produce any results.



System Manual SmartIntego

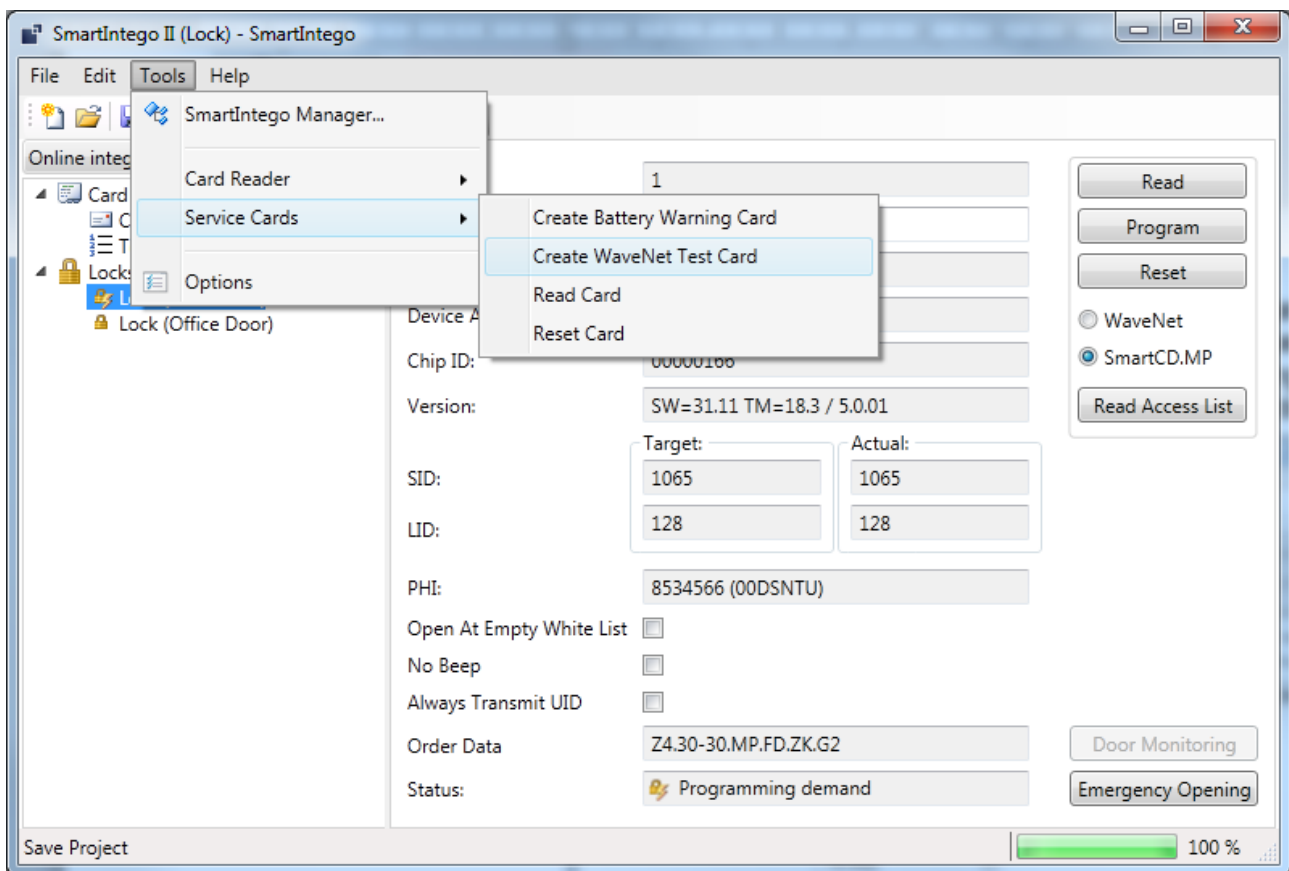
Tools --> Service cards --> Create battery warning card / battery changeover card:

you can use this added card to take a battery level measurement on a locking device --> hold card up to the card reader. If a battery warning has been activated, you can place a locking device in normal mode again after replacing the batteries.



System Manual SmartIntego

Tools --> Service cards --> Create WaveNet test card: You can use this card to test the radio connection between the locking device and the GatewayNode. If you hold the card in front of the card reader, the locking device will confirm a good radio link with four short audible signals. The radio link is based on the correct assignment between the locking device and GatewayNode --> there is no interference with the radio signal quality.



Read card: place the card on the programming device and execute function.

Reset card: added service cards can be reset.

System Manual SmartIntego

16 Online support

Using 'Help' --> online support can initiate remote control of the client PC with the TeamViewer online tool. This allows the SimonsVoss Hotline to gain remote access to the PC on which the SmartIntego software is running to provide support.

System Manual SmartIntego

17 SmartIntego Manager - other functions

17.1 Network ID

The default network ID is: DDDD (standard). All unprogrammed SmartIntego Manager components have this network ID. A new network ID must be assigned manually at a later stage.

17.2 Flash icon

The flash icon (shown below) indicates that it was not possible to complete the configuration for the components concerned in this segment.

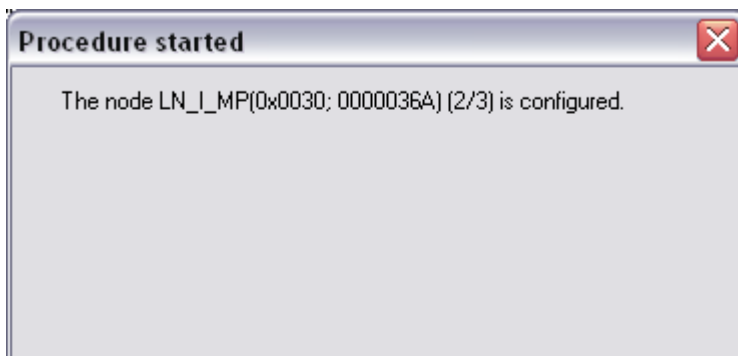


17.3 Save button

Click on the 'Save' button if you have made any changes. All GatewayNodes and LockNodes will receive their configuration once you have saved

17.4 Radio channel

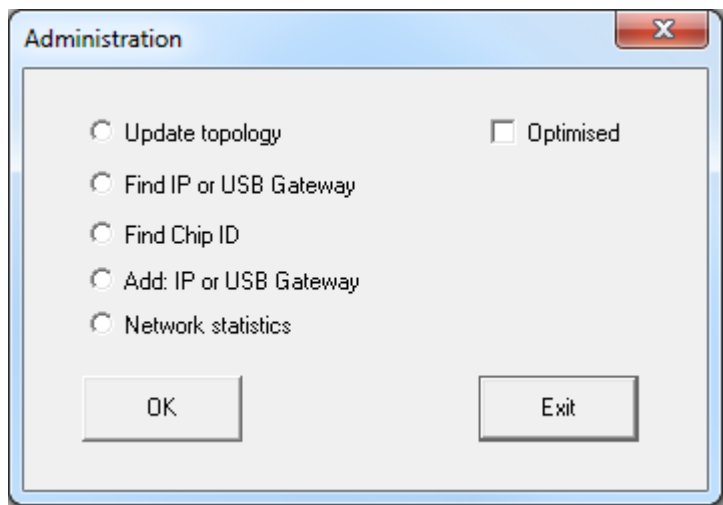
All unprogrammed SmartIntego Manager components have a default frequency (default radio channel). A different radio channel must be assigned manually at a later stage. The default radio channel is always used in addition to the radio channel selected manually. This enables new components to be added to existing WaveNet networks. As a result, signals can sometimes be transmitted on two different frequencies. Only one frequency is used during normal operations.



System Manual SmartIntego

17.5 SmartIntego Manager

You can open administration by right-clicking on WaveNet in SmartIntego Manager. Double-click to open or close the sub-tree in the topology. The context menu can only be opened using a right-click.



Update topology:

The whole network is updated automatically followed by messages in SmartIntego Manager with hex-address and chip ID of all network nodes/components reached. This may take a few minutes, depending on the size (calculated value --> two minutes per router).

Optimised:

if the 'Optimised' setting is used, a search is initiated for both new nodes and previously configured nodes. During this process, configured nodes (from other segments) may be moved to another segment to provide enhanced availability. If this setting is not used, then the system will search for new nodes only.

Find IP or USB gateway:

the search is for these components in the entire network/topology only.

Find chip ID:

search for a component in the entire network/topology using its chip ID.

Add: IP or USB:

new GatewayNodes can be added.

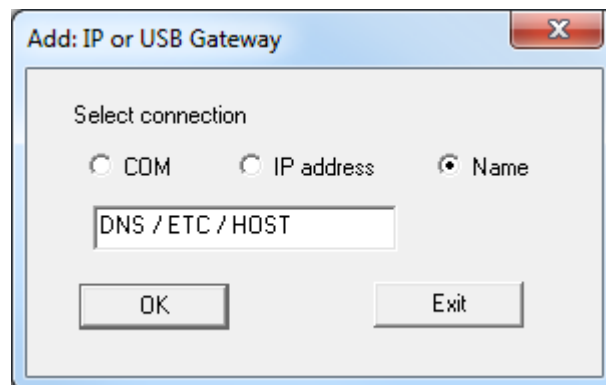
Select GatewayNode:

If 'Update topology' or 'Search for chip ID' is selected, the function may be implemented in the master segment concerned by making a suitable selection of GatewayNodes.

System Manual SmartIntego

17.6 Add GatewayNode

Add GN.UC, GN.ER: these components are added directly to the topology using a COM port, IP address, DNS or an ETC/HOST file.



System Manual SmartIntego

18 WaveNet statistics

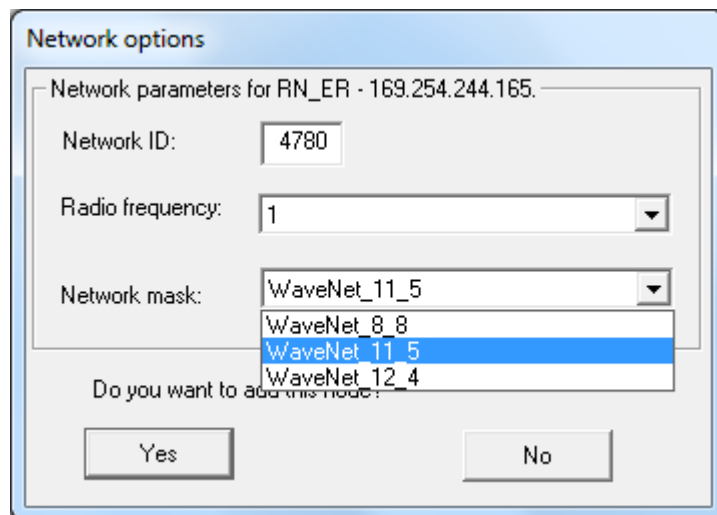
Displays all configured SmartIntego Manager components.

System Manual SmartIntego

19 Network mask

- 8_8 --> max. 249 GatewayNodes and max. 249 doors (per GatewayNode)
- 11_5 --> max. 1,700 GatewayNodes and max. 25 doors (per GatewayNode)
- 12_4 --> max. 3,200 GatewayNodes and max. 9 doors (per GatewayNode)

If you click on 'Yes' to close the dialogue, the network ID and the radio frequency are programmed into the new components. This dialogue window is not displayed for existing networks.

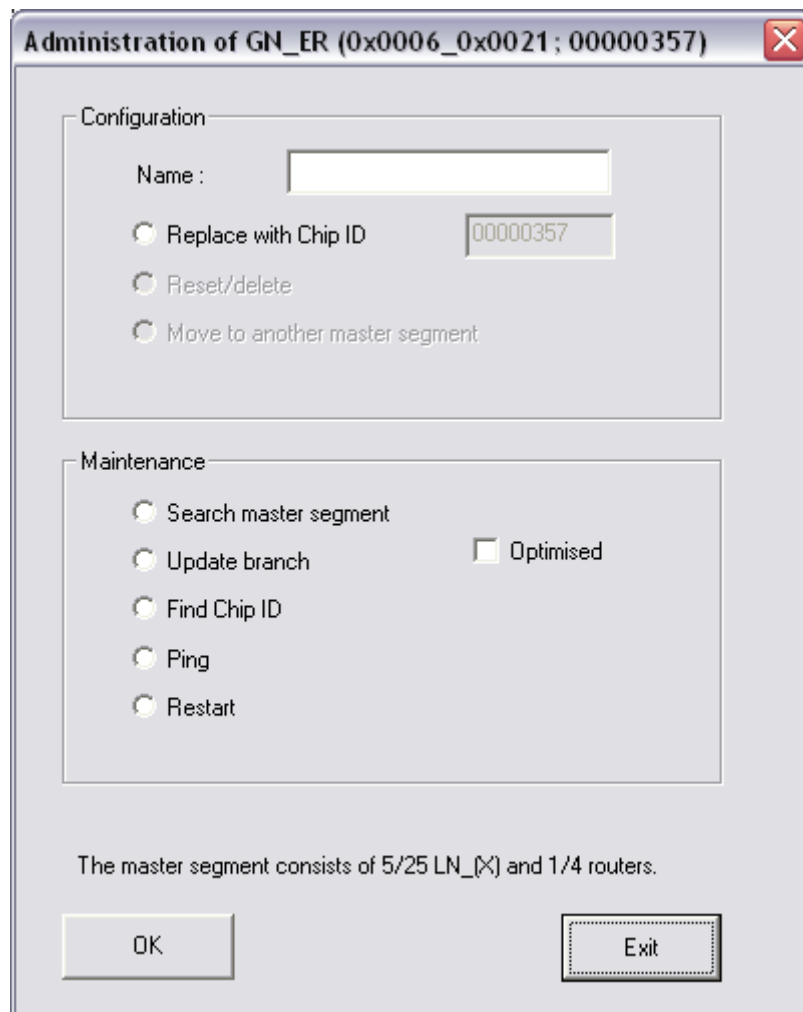


A network ID must be entered if a new network needs to be identified or generated. The characters 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E and F are permitted with a maximum length of four characters. The addresses 0000, 0001, DDDD and FFFF are not permitted as a network ID. You also need to select a radio frequency. Channels 1-9 and 11-12 are available for this purposes. Channels 11 and 12 are special frequencies which are used in Hong Kong and Malaysia, but they can also be used in Europe.

System Manual SmartIntego

20 GN_U(X), GN_ER – Administration

You can open administration by right-clicking on a GatewayNode in SmartIntego Manager.



- Name:
this is where you can enter the name of the GatewayNode.
- Replace with chip ID:
when replacing a component, the new component can be added to the selected segment by entering its chip ID. The configuration is transmitted to the new network nodes.

Please note: if the programming flash icon is visible on a component, you can attempt to re-programme the configuration without changing the chip ID, so that it can be added to the selected master segment.
- Reset/delete:

System Manual SmartIntego

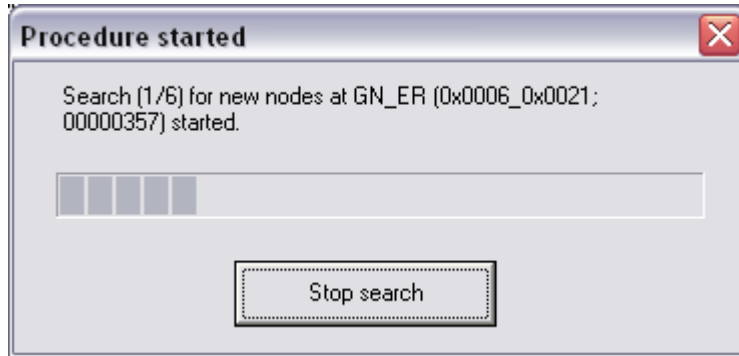
the selected components are reset and then deleted from the SmartIntego Manager screen. The components then feature the default configuration (default network ID: DDDD/Radio channel: default). The GatewayNode cannot be reset until all LockNodes have been removed. A LockNode may not be reset until its associated locking device has been reset.

- Move to a different master segment:
not possible for GNs.

System Manual SmartIntego

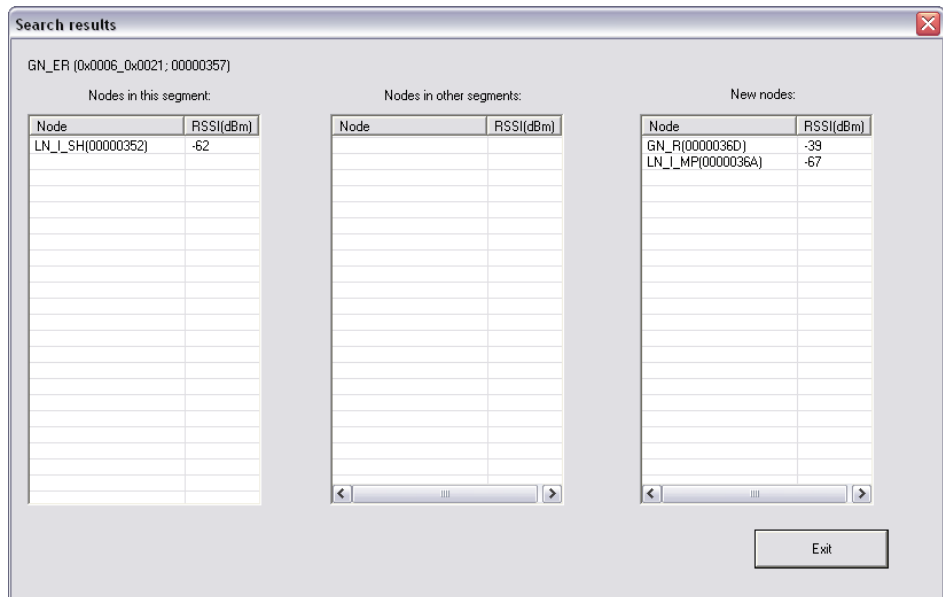
21 GN_U(X), GN_ER – Maintenance

- Search master segment:



- Result of search:

provides an overview and possible configuration in this master segment.



- The three columns use RSSI to describe and evaluate the nodes which are available in the selected master segment. The RSSI value for wired segments is always 0 (zero).
- Nodes in this segment:
this column displays all components/nodes which are managed by the selected master segment.
- Nodes from other segments:
this column displays all nodes which can be reached by this master segment via a radio link but do not belong to this master segment. The nodes in this master segment can be assigned by highlighting

System Manual SmartIntego

and dragging them into the first column (nodes in this segment). Assignment may take a few seconds or minutes as the routing table needs to be updated.

– New nodes:

this column displays all nodes which are not yet assigned to a master segment. The nodes in this master segment can be assigned either by double-clicking or highlighting them and dragging them into the first column (nodes in this segment). Assignment may take a few seconds or minutes as the routing table needs to be updated.

– RSSI (dBm):

Received Signal Strength Indication = strength of the received signal --> an indicator of the received field strength. The more negative the displayed dBm value is, the poorer the quality is that you can expect from the connection.

– Update branch:

non-programmed components are automatically incorporated into the branch based on the RSSI value.

– Optimised:

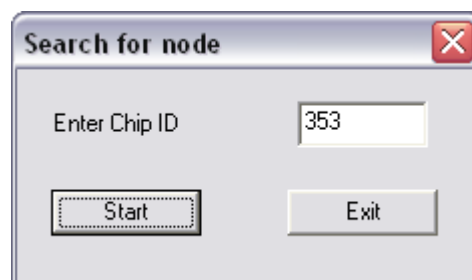
if the 'Optimised' setting is used, a search is initiated for both new nodes and previously configured nodes. During this process, configured nodes (from other segments) may be moved to another segment to provide enhanced availability.

– If this setting is not used, then the system will search for new nodes only.

– Only known ones

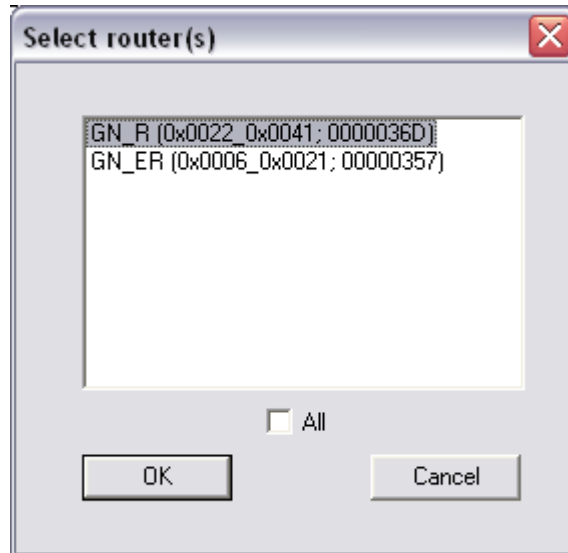
Only known or already configured LockNodes are updated.

Search for chip ID:



This is where you can look for a chip ID. A new window will open as soon as you have entered the chip ID.

System Manual SmartIntego



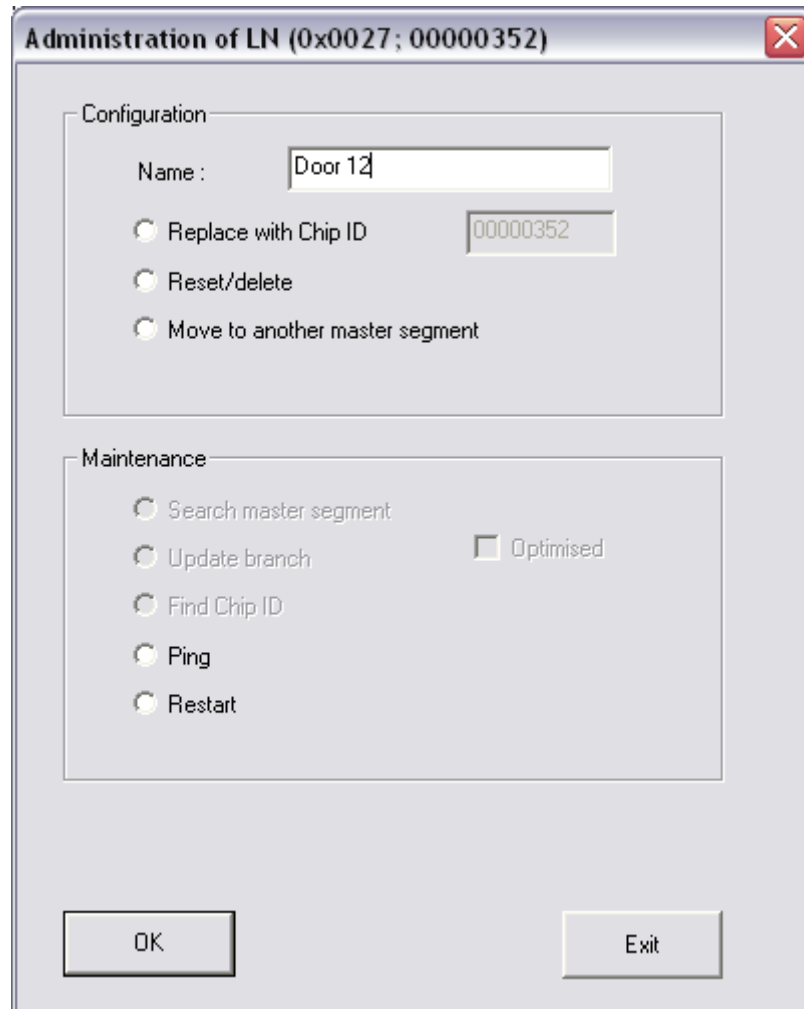
You can select which master segment is to be searched. Multiple segments can be selected. If you select 'All', the whole network is searched.

- Ping:
an availability test is carried out for selected components.
- Reboot:
the selected components are rebooted.

System Manual SmartIntego

22 LockNode configuration

You can open administration by right-clicking on a 'LockNode' in SmartIntego Manager.

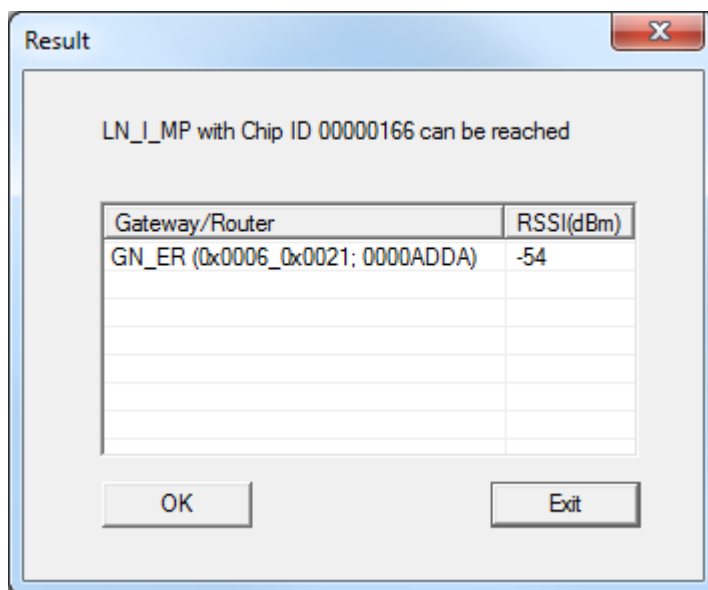


- Name:
 - this is where you can enter the name of the door.
- Replace with chip ID:
 - when replacing a component, the new component can be added to the selected segment using its chip ID. The configuration is transmitted to the new network nodes.
 - If the programming flash icon is visible on a component, you can attempt to re-programme the configuration without changing the chip ID.
- Reset/delete:

System Manual SmartIntego

the selected components are reset and then deleted from the SmartIntego Manager screen. These components then feature their default configuration again (default network ID: DDDD / radio channel: default). A LockNode may not be reset until its associated locking device has been reset.

- Move to a different master segment:
Option to check connection and possibly move to another segment when required.



As a general rule, the more negative the RSSI value, the poorer the connection quality. You can move the LN_(X) / RN_(X) to another segment by double-clicking or selecting it and pressing the OK button. The routing table is automatically updated when routers are added

System Manual

SmartIntego

23 Resetting GatewayNodes

23.1 SmartIntego Manager configurations of GatewayNodes only

1. Pull out the power plug.
2. Wait about 20 seconds.
3. Remove the cover (4 screws).
4. Press the button on the circuit board, near the power supply socket, and keep it pressed down. GN2: use a paper clip to trigger the reset button.
5. Re-insert the power plug.
6. Release the button when the red LED lights up (after about two seconds).
7. The SmartIntego Manager configuration has been reset (default setting).

23.2 Reset SmartIntego Manager configuration of LockNodes

If a previously configured LockNode is connected to another locking component with a different locking system ID, all SmartIntego Manager settings are re-set to default. The locking device which is selected to be reset must be programmed and thus be part of another locking system. A non-programmed locking device (locking system ID = 0 [zero]) cannot be used.

23.3 Resetting the TCP/IP configuration GN.ER

1. Pull out the power plug.
2. Wait about 20 seconds.
3. Remove housing lid.
4. Press down button on circuit board (near to power plug) and hold down. GN2: use a paper clip to trigger the reset button.
5. Re-insert the power plug.
6. Hold the reset button down until red and green LEDs flash alternately.
7. Then release the reset button.
8. The TCP/IP configuration has been deleted.

System Manual SmartIntego

24 Connecting RS485, SI.GN.CONFIG.UC & SI.GN.CR

RADIO NETWORK.

SI.GN.CONFIG.UC
+
SI.GN.CR

Connection

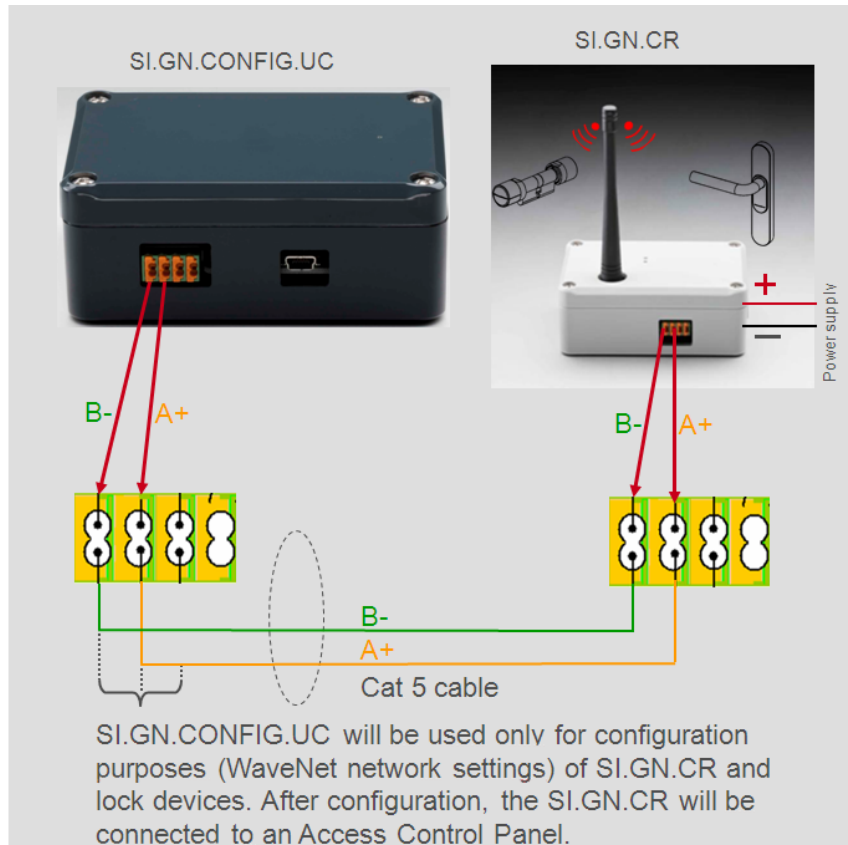
SI.GN.CR.

SI → SmartIntego

GN → GatewayNode

C → Cable (RS485) (Slave)

R → Radio (Master)



System Manual SmartIntego

25 Resetting locking devices

1. Select the locking device concerned in the SmartIntego configuration software.
2. Click on the 'Reset' button. When resetting is successfully completed, a yellow programming requirement is displayed in the status row again and the values for LID/SID must indicate 0 (zero) under 'Actual'.
3. Launch SmartIntego Manager to reset or delete the LockNode (Reset/Delete).

System Manual SmartIntego

26 Additional information

- Chip ID:
indicated on the packaging label --> locking device/GatewayNode
The packaging also contains an extra sticker for your documentation.
- PHI: Physical Hardware Identifier
Indicated on the packaging label --> locking device + locking cylinder housing
 - PHI: Unique alphanumerical identifier for the locking device.

System Manual SmartIntego

27 Declaration of Conformity

You can access documents such as declarations of conformity and other certificates online at www.smartintego.com.

System Manual SmartIntego

28 Help & contact for SmartIntego

Instruction manuals

You will find detailed information on operation and configuration online on our homepage at www.smartintego.com at INFOCENTRE > PARTNER AREA > DOCUMENTATION

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