09.2015



Inhaltsverzeichnis

1	Impo	rtant	3
2	Intro	luction	. 4
3	Syste	em requirements	5
4	Softw	/are installation and configuration	6
	4.1	Installation and configuration of the TCP/IP settings	. 6
	4.2	Programming device driver installation	. 9
	4.3	SmartIntego software installation and configuration	. 9
	4	.3.1 Installing the SmartIntego software	. 9
	4	.3.2 Create new project	. 9
	4	.3.4 Card configuration: Mifare Classic	12
	4	.3.5 Card configuration: Mifare DESfire	13
	4	.3.6 Radio network configuration	14
5	Smar	tIntego Manager	23
	5.1	Network ID	23
	5.2	Save button	23
	5.3	Radio channel	23
	5.4	SmartIntego Manager	23
	5.5	Select GatewayNode	24
	5.6	Add GatewayNode	25
	5.7	WaveNet statistics	25
	5.8	Network mask	26
	5.9	GN_U(X), GN_ER – Administration	26
	5.10	GN_U(X), GN_ER – Maintenance	28
	5.11	LockNode administration	30
6	Rese	tting GatewayNodes	33
	6.1	SmartIntego Manager configurations of GatewayNodes only	33
	6.2	SmartIntego Manager configuration of GatewayNodes	33
	6.3	Resetting the TCP/IP configuration GN.ER	33
7	Conn	ecting RS485, SI.GN.CONFIG.UC & SI.GN.CR	34
8	Rese	tting locking devices	35
9	Addit	ional information	36
10	Decla	ration of Conformity	37
11	Help	& contact for SmartIntego	38

1 Important

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 of this manual takes precedence in cases of doubt. Errors and spelling mistakes excepted.

You can find more information about SimonsVoss products at: www.simons-voss.com

Access through a door may be denied if components are installed or programmed incorrectly. SimonsVoss Technologies GmbH is not liable for the 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.

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.

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	Monitor, min. 19" with minimum resolution of 1,024 x 768 px.				
hardware requirements	CPU: 2.66 GHz (or faster)				
	2 GB RAM (or more)				
	Windows 7 Professional				
	USB port/LAN connection				

System Manual **SmartIntego** 4 Software installation and configuration 4.1 Installation and configuration of the TCP/IP settings Installation instructions for SmartIntego GatewayNode for TCP/IP network settings using Digi Device Discovery Installation of Digi 1. Insert the CD supplied with the GatewayNode into the CD drive. **Device Discovery** 2. Select the language that you require. 3. Open the 'Discovery Tool' folder. Run the application as an administrator. (Right-click on 'Run as 4. administrator') 5. Follow the installation steps. \Rightarrow After installation is complete, the system displays the message 'Digi Device Discovery has now been successfully installed'. Configuration of Digi 1. Launch the Digi Device Discovery application that you have just installed. **Device Discovery** 奎 Digi Device Discovery IP Address MAC Address Name Device Device Tasks 2 Open web interface Telnet to command line Configure network settings Restart device Other Tasks Refresh view Help and Support Details Digi Connect ME4 9210 Configured (DHCP) IP address: 169.254.244.165 Subnet mask: 255.255.0.0 Default gateway: 0.0.0.0 Serial ports: 1 Firmware: 82001607 L

1 device

⇒

2. Select the corresponding IP address and click on 'Open web interface'.

My Device Network

NOTICE

You must always start in the same subnet whenever you work with this application to ensure that you can establish a connection with the device and can change/configure TCP/IP network settings.

igi Connect ME4 9210 Configuration and Management - Mozilla) Firefox	X
Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe	Beller-tos Line LU	
Digi Connect ME4 9210 Configuration a +		
(169.254.244.165 /login.htm	🏫 च 🖱 🚼 च Google 🛛 🔎	
Möchten Sie dabei helfen, Mozilla Firefox zu verbessern, indem Si Performanz, Hardware-Eigenschaften, Feature-Nutzung, und Bro senden? <u>Weitere Informationen</u>	ie anonymisierte Daten über wser-Anpassungen an Mozilla [Ja, ich möchte helfen] <u>N</u> ei	in
Digi Connect Management	ME4 9210 Configuration and	_
Login	Help	
Welcome to the Configuration and Management interface of the Digi Connect ME4 9210. Please specify the username and password to login to the web interface. See the User Guide and documentation for more information on logging in or retrieving a lost password.	Username: root Password: ••••	E
		-

3. Log on. The default log-on credentials are 'root' for the user name and 'dbps' for the password.

ater gearbeiten Ansicht Unronik	Lesezeichen cätras Hilfe	the second se		
Digi Connect ME4 9210 Configuratio	on a +	A RE LOTARE & Restort- top 1 top		
 169.254.244.165/home. 	htm		☆ マ C Google	
Möchten Sie dabei helfen, Mozilla i Weitere Informationen	Firefox zu verbessern, indem Sie	nonymisierte Daten über Performanz, Hardware-Eigenschaften, Feature-Nutzung, und Bro	wser-Anpassungen an Mozilla senden?	Ja, ich möchte helfen
	Digi Connect M	E4 9210 Configuration and Management		
Ulân				
				0
Home	Home			
Configuration	Getting Started			
Network	Getting Started			
Serial Ports GPIO	Tutorial Not sure wit	at to do next? This Tutorial can help.		
Alarms	System Summary			
System	Model	Digi Connect ME4 9210		
Users	Ethernet MAC Address:	00:40:9D:74:33:73		
Applications	Ethomet ID Addresses	160 354 344 165		
RealPort	Link Local Address:	109.234.244.103 EE80240.0DEE.EE74.2272		
Management	LINK LOCALAUDRESS:	PE00.240.30FF.FE/4.33/3		
Serial Ports	Description:	None		
Connections	Contact:	None		
Administration	Location:	None		
File Management				
Backup/Restore	Device ID:	00000000-00000000-00409DFF-FF743373		
LIDGODO MITOMODO				
Eactory Default Settings				
Factory Default Settings System Information				

4. Navigate to Configuration/Network.

⇒

Digi Connect ME4 9210 Configure			
 Configuration (Configuration) Configuratio	vork/network_config.htm		٩
Möchten Sie dabei helfen, Mozil Weitere Informationen	Firefox zu verbessern, indem Sie anonymisierte Daten über Performanz, Hardware-Eigenschaften, Fi	ature-Nutzung, und Browser-Anpassungen an Mozilla senden?	Įa, ich möchte helfen
			8 H
Home	Network Configuration		
gi Connet M4 9210 Configuration and Management - Mozills Firefox Rether Mandet Chronic Learch for Signific gio Connet M2 920 Configuration = M			
Serial Ports			
GPIO Alarms	IPv6		
System iDigi	Site Local Address: none		
Users	LINK LOCALAUDRESS: PEBO::240:90FF:FE/4:3373		
Applications	IPv4		
Management	Obtain an IP address automatically using DHCP *		
Digit Units contained and eases Instrume Users Link Local Address: FEB01:240:9DFF;FE74:3373 Applications [Py4 ReaPort ® Obtain an IP address automatically using DHCP * Senal Forts © User following IP address: Connections 17:0:4decess			
Connections	* IP Address: 169.254.244.165		
Administration File Management	* Subnet Mask: 255.255.0.0		
Backup/Restore	Default Gateway: 0.0.0.0		
Factory Default Settings System Information	☑ Enable AutoIP address assignment		
Reboot	* Changes to DHCP, IP address, and Subnet Mask may affect your browser con	nection.	
Logout	Apply		
	Network Services Settings		
	IP Forwarding Settings		
	Socket Tunnel Settings		
	Advanced Network Settings		

NOTICE

Once there, you can configure your IP settings. The configuration is set to DHCP by default. Once you have implemented changes, click on 'Apply' to accept the changes that you have made. Log out when you have completed the configuration.

This application uses Port 2101 to communicate. Ensure that this port is also open during the browser session.

5. Click on the 'Advanced network settings' if you wish to edit them.

] Digi Connect ME4 9210 Configura	tion a +	the same \$ is been and the same \$ 100 to a set \$ \$ \$ \$ \$ \$	THE R. P. P. LEWIS
 169.254.244.165/config/ne 	twork/network_advanced_config.hts	n 🔂 🗟 🗸 Google	ع
Möchten Sie dabei helfen, Mozill Weitere Informationen	a Firefox zu verbessern, indem Sie an	onymisierte Daten über Performanz, Hardware-Eigenschaften, Feature-Nutzung, und Browser-Anpassungen an Mozilla senden?	Įa, ich möchte helfen
Home	Network Configurat	ion	
Configuration	• Ethernet IP Settings		
Serial Ports	Network Services Setting	38	
GPIO	IP Forwarding Settings		
System	Socket Tunnel Settings		
iDigi	* Advanced Network Set	lings	
Users	The following settings are	advanced settings used to fine tune the network connection and network interfaces. The default settings will typic	ally work in most situations.
Applications RealPort	ID Settinge		
Management	ir Settinga	n need	
Serial Ports	Host Name:	DEFB	
Connections	Static Drimany DNS:	0000	
Administration File Management	Stade Frinary DNS.	0000	
Backup/Restore	Scatic Secondary DNS:	0000	
Update Firmware Factory Default Settings			
System Information	DNS Priority:	Ethemet	
Reboot		0	
Logout	Ethernet Interface		
	Eth0	Speed: 10 Mbit Duplex Mode: Half-Duplex	
	TCP Keep-Alive Settings		
	Idle Timeout: 0	hrs 3 mins 0 secs (10 secs - 24 hrs)	
	Probe Interval: 10	secs (10-75)	
	Probe Count: 5	probes (5-30)	

 NOTICE
 This is where you can add the chip ID on the GatewayNode device as the host name, e.g. DEFB. Click on 'Apply'.

 6.
 Close the web interface.

 ⇒ You should now return to the Digi Device Discovery application.

 ⇒ You will now be able to see the GatewayNode's TCP/IP settings and chip ID.

7. Use the same procedure to set up any other GatewayNodes.

4.2 Programming device driver installation

NOTICE You must ensure that the card programming device remains connected to the SmartIntego software via the USB port during the entire configuration and programming process.

- 1. Connect the programming device to your computer.
- 2. Run the driver application, which you will find labelled as 'CardDriver in the SmartIntego installation folder.
 - ⇒ The message 'Installation completed successfully' will be displayed once installation is complete.

4.3 SmartIntego software installation and configuration

4.3.1 Installing the SmartIntego software

Install the latest version of the SmartIntego software.

4.3.2 Create new project

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

Name:	SmartIntego for Systemintegration
Password:	•••••
Confirm password:	•••••
Locking system: Password:	•••••
Confirm password:	•••••
Attention! Please st When you lost pass	tore your passwords in safe place! swords, you will not able to program your locking
system.	

System Man SmartIntego	ual
	 'Project - name': Enter project name (example: SmartIntego for system integration).
	 'Project - password': enter the password that you want to use to protect the project.
	4. 'Project - confirm password': re-enter the password to check.
	'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 the 'Locking system - password' must be dif- ferent from one another and must each consist of 8 characters.
NOTICE	Activate 'Open this project as default' checkbox to open this project whenever you launch SmartIntego software.
	7. Press 'OK' to continue.
	Save Project - SmartIntego
	Would you like to save 'SmartIntego for Systemintegration' project?
	OK Abbrechen
	8. Save .ikp file: we recommend saving the .ikp file in the SmartIntego installation directory.



4.3.3 Card configuration: unique ID

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

Card setups: if a UID (unique ID) is selected, the checkboxes for the card settings are greyed out.

Card config - SmartIntego		x
File Edit Tools Help		
i 🎦 💕 🔛 🖉 i		
 Card configurations Card config (CardCfg_0001) Locks 	ID: 1 Name: CardCfg_0001 Return timeout: 10 1/10 sec Unique ID: ✓ Card setups: 0	
	ID Name Offset Remote (Bytes) Length Remote (Bytes) Offset Local (Bytes)	
	Card type:	
	ID Name Value	

4.3.4 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 will appear.

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

ID: not configurable

Name: configurable

Delay: via radio (bytes): configurable

Length remote (bytes): configurable

Delay: local operation (bytes): configurable

Length local (bytes): configurable

Red-highlighted areas indicate missing or incorrect information.

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

Card config - SmartIntego	and the state						
<u>File Edit Tools H</u> elp							
i 🞦 💕 🛃 🚬 i	<u>م</u>						
Card configurations Card config (CardCfg_0001)	ID:	1					
P E LOCKS	Name:	CardCfg_0001					
	Return timeout:	10	1 / 10 sec				
	Unique ID:						
	Card setups:	5					
	ID Name	Offset Remote (Bytes)	ength Remote (Bytes)	Offset Local (Bytes)	Length Local (Bytes)		
	1 Classic1	0	J () /		0	*	
	2	0 0		0	0	=	
	4	0 0		0	0		
	5	<u> </u>		0	•	•	
	Card type:	MIFARE	•				
	Card parameters:		_				
	ID Name	Value					
	1 KeyType	KEYA		•		*	
	2 Key	FFFFFFFFF	F				
	3 SectList	1,2,3,4,5,6,7,	8,9,10,11,12,13,14,15				
Ready							0 %

4.3.5 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 will appear.

Card setups: you can configure up to five different MC or MD card settings.

ID: not configurable

Name: configurable

Delay: via radio (bytes): configurable

Length remote (bytes): configurable

Delay: local operation (bytes): configurable

Length local (bytes): configurable

Red-highlighted areas indicate missing or incorrect information.

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

4.3.6 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 restore the password if it is lost.

3. Right-click on 'WaveNet_11_5'.

SmartIntego Manager	Version 2.5.0			
Network ID: AABB	Radio channel: 9			
GN_ER (0x00	06_0x0021; 00000357) 1	92.168.201.41		
LN (0x002	6; 0000036C)			
	27; 00000352)			
LN (0x002	F; 00000368) A: AAAAAA			
LN (0x003	1; 0000036B)			
GN_R (0	x0022_0x0041; 00000	136D)		
J				
- Search in view for Chin ID	or address			
	Chart course	Minimin	Cours 1	Evà
	Start search	Minimise	Save	Exit
	Search for next	Maximise	Help	

4. Select 'Add: CN_U(X), CN_S(X), RN_E(X) or RN_W(X)' to add a GatewayNode to SmartIntego Manager and then click on 'OK'.

Administration	X
C Lindate topology	
C Find IP or USB Routers	, opaniood
C Find Chip ID	
C Add: IP or USB Routers	
C WaveNet statistics	
ОК	Exit

5. Click on 'Add IP or USB routers' and 'IP address' and enter the address for the GatewayNode.

Add: IP or USB Routers	
Select connection	
С СОМ	IP address
192 . 168 . 201 .	41
ОК	Exit

6. Network ID: e.g. the software randomly selects 4780 as the network ID. Used in conjunction with the password, this network ID provides a unique designation for your radio network.

Network options	
Network parameters	for GN_ER - 192.168.201.41.
Network ID:	AABB
Radio frequency:	9
Network mask:	WaveNet_11_5
Do you want to	add this node?
Yes	No

 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. Calculating the frequency: 868.1 MHz+n*0.2 (n=1,2,...9)

Network options		
Network parameters fo	r RN_ER - 169.254.244.165.	
Network ID:	4780	
Radio frequency:	1 💌	
Network mask:	1 2 3 4	
Do you want to a	5 6 7	
Yes	8 9 11 for Malaysia (868,100000 MHz) 12 for Hong Kong (868,050000 MHz)	

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.

Network options	
Network parameters	for RN_ER - 169.254.244.165.
Network ID:	4780
Radio frequency:	1
Network mask:	WaveNet_11_5
Do you want to	WaveNet 12_4
Yes	No

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

⇒

SmartIntego Manager	Version 2.5.0			-
Network ID: AABB	Radio channel: 9			
WaveNet_11_5	06_0x0021; 00000357) [* (6; 0000036C) (27; 00000352) (5: 00000 352)	192.168.201.41		
LN (0x002 LN (0x003 LN (0x003 GN_R (0	n; 0000036A) (0; 0000036A) (1; 0000036B) (x0022_0x0041; 0000	036D)		
- Search in view for Chip ID	or address Start search		Save	Exit

10. Enter the name to describe the door (e.g. main entrance). Select 'Find chip ID' and click on 'OK'.

Administration o	f GN_ER (0x000	06_0x0021; 00000357)	X
Configuration —			
Name :			
C Replac	ce with Chip ID	00000357	
C Reset/	/delete		
C Move	to another master se	egment	
- Maintenance			
C Search	n master segment		
C Update	e branch	C Optimised	
C Find C	hip ID		
C Ping			
C Restar	t		
The master segr	ment consists of 5/2	25 LN_(X) and 1/4 routers.	
ОК		Exit	
⇒			

 Enter the chip ID featured on the label on the locking cylinder packaging or inside the SmartHandle packaging --> e.g. 2d2 and the ID to be assigned to the GatewayNode and click on 'Start'.

-	Search for node	×
	Enter Chip ID	2d2
	Start	Exit
⇒[[

12. Select the input and click on 'OK'.

Result		X
	LN_I_MP with Chip ID 000002D2 can be	reached
	Router	RSSI(dBm)
	RN_ER (0x0006_0x0021; 0000DEFB)	-85
	ОК	Exit

13. 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.

smartintego Manager	Version 2.5.0			-
Network ID: AABB	Radio channel: 9			
	06_0x0021; 00000357) 192	168.201.41		
LN (0x002	26; 0000036C) 127- 000003521			
LN (0x002	2F; 00000368)			
LN (0x003	80; 0000036A)			
LN (0x00)	31; 0000036B) ••••••	201		
ה_ה (u	1XUU22_UXUU41; UUUUU31	וייי		
Search in view for Chip ID	or address	View		
	Start search	<u>M</u> inimise	Save	Exit
	Search for next	Maximise	Help	

14. After you click on 'Exit', another screen is shown.

Sequence	Node	Status
1	Gateway Node (WNNode_0006)	🥝 Added gateway no

15. Click on Locks --> Lock (Main Entrance) | ID: not configurable | Name: configurable | Address: not configurable | Chip ID: not configurable | Version: not configurable | SID (System ID)/LID (Lock ID): not configurable | PHI (Physical Hardware Identifier): not configurable | Time-controlled return function (Scandinavian FireMode): if you activate the checkbox, the lock remains engaged ready for use for a specific period of time --> disengages after a pre-set interval or double batch processing with an authorised card. | Status: programming prompt --> locking device/locking devices need programming | Status: OK --> no further measures required | Read: read lock using wireless connection | Programme: programme lock via wireless connection | Reset: reset lock to default settings via wireless connection



16. You need to click on 'Read' first if you would like to programme an unprogrammed lock. Then run 'Program' (top, right-hand corner). The unique chip ID is also printed on the SI product.

ſ	Lock - SmartIntego
	Lock successfully programmed.
	ОК

5 SmartIntego Manager

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



5.2 Save button

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

5.3 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 WLAN networks. As a result, signals can be sometimes transmitted on two different frequencies. Only one frequency is used during normal operations.

Procedure started	
The node LN_I_MP(0x0030; 0000036A) (2/3) is configured.	

5.4 SmartIntego Manager

You can open administration by double-clicking or right-clicking on WaveNet in SmartIntego Manager.

System Manual SmartIntego			
Ad	ministration	$\overline{\mathbf{X}}$	
	C Update topology	🔲 Optimised	
	C Find IP or USB Routers		
	C Add: IP or USP Poutora		
	 WaveNet statistics 		
	OK	Exit	
Update topology:	automatic configuratic in SmartIntego Manag all network nodes/con minutes, depending o	on of the whole network fo ger with an hexadecimal a nponents reached. This ca n the size.	llowed by messages ddress and chip ID for an take several
Optimised:	if the 'Optimised' settin nodes and previously nodes (from other seg availability. The system used.	ng is used, a search is init configured nodes. You ca gments) to other segments m will search for new node	iated for both new in move configured is to improve es if this setting is not
Find GN_U(X), GN_ER:	the search is for these use the chip ID to look network/topology.	e components only. Searc k for a specific component	h for chip ID: You can anywhere in the

5.5 Select GatewayNode

If you select 'Update topology' or 'Search for chip ID', you can implement the function in the selected master segment concerned.

Select router(s)	
GN_R (0x0022_0x0041; 000 GN_ER (0x0006_0x0021; 00	0036D) 1000357)
🗔 All	
OK	Cancel

5.6 Add GatewayNode

Add $GN_U(X)$, GN_ER : these components are directly added to the topology via a COM port or using the IP address.

Add: IP or USB Routers	X
Select connection © COM 19	O IP address
ОК	Exit
Add: IP or USB Routers	×
Add: IP or USB Routers Select connection COM 192 . 168 . 201 . 41	 IP address

5.7 WaveNet statistics

Displays all configured SmartIntego Manager components.

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 11-15 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.

5.8 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.

Network options			
Network parameters	Network parameters for GN_ER - 192.168.201.41.		
Network ID:	AABB		
Radio frequency:	9		
Network mask:	WaveNet_11_5		
Do you want to add this node?			
No No			

5.9 GN_U(X), GN_ER – Administration

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

A dn	ministration of GN_ER (0x0006_0x0021; 00000357)	X
[Configuration	
	Name :	
	C Replace with Chip ID 00000357	
	C Reset/delete	
	C Move to another master segment	
[Maintenance	
	C Search master segment	
	C Update branch 🔲 Optimised	
	Find Chip ID	
	C Ping	
	C Restart	
	The master segment consists of 5/25 LN_(X) and 1/4 routers.	
	OK Exit	

- Name:

this is where you can enter the name of the GatewayNode.

- Replace with chip ID:

If you wish to replace a component, you can enter the chip ID to add the new component to the selected segment. The configuration is then transmitted to the new network nodes. Please note: if a programming flash icon is displayed for a component, you can try to programme a new configuration which will be added to the selected master segment without changing the chip ID.

- Reset/delete:

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). A LockNode may not be reset until all locking devices have been reset.

- Move to another master segment:

not possible for GNs.

5.10 GN_U(X), GN_ER – Maintenance

- Search master segment:

Procedure started	
Search (1/6) for new nodes at GN_ER (0x0006_0x0021; 00000357) started.	
Stop search	

- Search results:

creates an overview + possible configuration in this master segment.

Search results					
GN_ER (0x0006_0x0021;	00000357)				
Nodes in this s	egment:	Nodes i	n other segments:	New node	es:
Node	RSSI(dBm)	Node	RSSI(dBm)	Node	RSSI(dBm)
LN_1_SH(00000352)	-62			GN_R(0000360) LN_LMP(0000036A)	-39 -67
		<	<u> </u>	<u> < </u>	Exit

The three columns describe and evaluate the nodes using RSSI 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 nodes which the previously selected master segment manages.
- Nodes in other segments:

this column displays all nodes from which the master segment detects radio signals which, however, do not belong to the master segment. The nodes in this master segment can be assigned by

highlighting them and dragging them to this first column (Nodes in this segment). It may take a few seconds or minutes to assign them as the routing table needs to be updated.

– New nodes:

this column displays all nodes which have not yet been assigned to a master segment. The nodes in this master segment can be assigned by double-clicking or highlighting them and dragging them to this first column (Nodes in this segment). It may take a few seconds or minutes to assign them 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 that you can expect from the connection.

Update branch:

unprogrammed components are automatically integrated into the branch based on their RSSI value.

- Optimised:

if the 'Optimised' setting is used, a search is initiated for both new nodes and previously configured nodes. You can move configured nodes (from other segments) to other segments to improve availability. The system will look for new nodes if this setting is not used.

Search for chip ID:

Search for node	
Enter Chip ID	353
Start	Exit

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

Selec	ct router(s)	X
	GN_R (0x0022_0x0041; 0000036D) GN_ER (0x0006_0x0021; 00000357)	
	Cancel	

You can select which master segment is to be searched. You can select more than one segment. The entire network is searched if you select 'All'.

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

the selected components are rebooted.

5.11 LockNode administration

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

A dr	ninistration of LN (0x0027; 00000352)	X
[Configuration	
	Name : Door 12	
	Replace with Chip ID 00000352	
	C Reset/delete	
	C Move to another master segment	
[Maintenance	
	C Search master segment	
	O Update branch 🔲 Optimised	
	🔿 Find Chip ID	
	C Ping	
	C Restart	
[OK Exit	

- Name:

this is where you can enter the name of the door.

Replace with chip ID:

if you wish to replace a component, you can enter the chip ID to add the new component to the selected segment. The configuration is then transmitted to the new network nodes. If a programming flash icon is displayed for a component, you can try to programme a new configuration which will be added to the selected master segment without changing the chip ID.

- Reset/delete:

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)

- Move to another master segment:

As a general rule: the more negative the RSSI value, the worse the connection quality is. You can click on the $LN_(X)$ to move it to another segment. The routing table is updated automatically if routers are added.

6 Resetting GatewayNodes

6.1 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 on the button on the circuit board, near the power supply socket, and keep it pressed down.
- 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).

6.2 SmartIntego Manager configuration of GatewayNodes

All SmartIntego Manager settings are reset to their default values if a previously configured LockNode is linked to another locking component in a locking system with a different locking system ID. The locking device which needs resetting needs to be reprogrammed and become part of a different locking system. You cannot use an unprogrammed locking device (locking system ID = 0 [zero]).

6.3 Resetting the TCP/IP configuration GN.ER

- 1. Pull out the power plug.
- 2. Wait about 20 seconds.
- 3. Remove the cover (4 screws).
- 4. Press on the button on the circuit board, near the power supply socket, and keep it pressed down.
- 5. Re-insert the power plug.
- 6. Hold the button down until the red and green LEDs flash alternately.
- 7. Then release the button.
- 8. The TCP/IP configuration has been deleted.

RADIO NETWORK. SI.GN.CR SI.GN.CONFIG.UC SI.GN.CONFIG.UC +ODD SI.GN.CR Connection -----B B-SI.GN.CR. SI → SmartIntego GN → GatewayNode B- $C \rightarrow Cable (RS485) (Slave)$ A+ R → Radio (Master) Cat 5 cable SI.GN.CONFIG.UC will be used only for configuration purposes (WaveNet network settings) of SI.GN.CR and lock devices. After configuration, the SI.GN.CR will be

connected to an Access Control Panel.

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

8 Resetting locking devices

- 1. Select the locking device concerned in the SmartIntego configuration software.
- 2. Click on the 'Reset' button. A yellow programming prompt is displayed if the reset was successfully completed.
- 3. Launch SmartIntego Manager to reset or delete the LockNode (Reset/ Delete).

9 Additional information

- Chip ID:

indicated on the packaging label --> locking device/GatewayNode The packaging also contains an extra sticker for your documentation.

– PHI:

indicated on the packaging label --> locking device + locking cylinder housing

10 Declaration of Conformity

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

11 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
	SimonsVoss Technologies GmbH
	Feringastrasse 4
	85774 Unterföhring
	Germany