09.2015



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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.

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, 8 & 10 Professional (32 & 64 Bit)		
	USB port/LAN connection		

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.

SimonsVossAdmin Version 1.0				
Poll Scan Refresh				
Simons Voss Device				
192.168.1.135 (D8-80-39-14-20-35) SV_142035				
Digi Device				
192.168.1.248 (00-40-9D-2B-2B-FA) SV_4OG_R405				
192.168.1.4 (00-40-9D-31-31-61) RN_EC_alter_Serverraum				
192.168.1.5 (00-40-9D-46-86-16) SV_1OG_RN_ER				
Operating system: Microsoft Windows 7 Enterprise 64-Bit				

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.

Scan 🛛		
Set IP Address to	scan.	
IP Address:	192,168, 1,135	
If the last part of	the IP Address is 255 then the scan starts from 1 to 254.	
Ok	Cancel	

Refresh: the screen is refreshed.

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

Network configuration	×
Set your network con	figuration.
Host name:	SV_142035
MAC Address:	D8-80-39-14-20-35
Enable DHCP IP Address: Subnet Mask: Default Gateway	192 168 1 . 135 255 . 255 . 0 192 168 1 1
Default Galeway	132 . 100 . 1 . 1
Ok	Cancel

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

Authentifizierung e	erforderlich
?	http://192.168.1.94 verlangt einen Benutzernamen und ein Passwort. Ausgabe der Website: "protected area"
Benutzername:	SimonsVoss
Passwort:	•••••
	OK Abbrechen

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.

🛓 SimonsVossAdr	nin Version 1.0	
Poll Scan Refr	esh	
Digi I	Device	
	192.168.1.248 (00-40-9D-2B-2B-FA) SV_4OG_R405	
	192.168.1.4 (00-40-9D-31-31-61) RN_EC_alter_Serverraum	
	192.168.1.5 (00-40-9D-46-86-16) SV_10G_RN_ER	
	192.168.203.3 (00-40-9D-54-C2-7B) SPM-WNM-TN	
	192.168.203.2 (00-40-9D-56-EF-21) Support.HR	
	192.168.203.13 (00-40-9D-77-9E-96) SmartIntego	
	192.168.203.5 (00-40-9D-2C-96-29) 502-601-WN-CN-ER-TN	
	192.168.203.7 (00-40-9D-2C-97-A7) GN at Main Door	
Operating system:	Microsoft Windows 7 Enterprise 64-Bit	.::

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

Network configuration			
Set your network configuration.			
Host name: GN at Main Door			
MAC Address:	00-40-9D-2C-97-A7		
Enable DHCP IP Address: Subnet Mask:	192 . 168 . 203 . 7 255 . 255 . 255 . 0		
Default Gateway	192 . 168 . 203 . 254		
Ok	Cancel		

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

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe		
SimonsVoss Technologies Gm 🗴 🧮 SimonsVoss Technologies	× Digi Connect ME Configuratio × +	
	マ Ĉ 🛛 🗧 snmp 🔎 🏠 自	+ ☆ =
🖉 Meistbesucht 🗍 Erste Schritte 🔊 Aktuelle Nachrichten 🖶 Links anpa	assen 🧕 Outlook Web App	
Digi Connect ME	Configuration and Managem	ent P
Login		
Welcome to the Configuration and Management interface of the Digi Connect ME	Username: Password:	
Please specify the username and password to login to the web interface.	Login	
See the User Guide and documentation for more information on logging in or retrieving a lost password.		
Copyright © 1996-2008 Digi Int www.c	ternational Inc. All rights reserved. digi.com	-

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

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe			
SimonsVoss Technologies Gm 🗴	E SimonsVoss Technologie	es 🗙 Digi Connect ME Configuratio 🗙	+
 P @ 192.168.1.248/home.htm 	n T	7 연 🚺 - snmp 👂 🏠 自 🖣	▶ ⋒ =
Meistbesucht 🗍 Erste Schritte 🔊	Aktuelle Nachrichten 📒 Links	anpassen 🧕 Outlook Web App	
<u> </u>			
	Digi Connect M	E Configuration and	
Diai	Management	E comparation and	
	Hanagement		
			Help
Home	Home		
Configuration	Getting Started		
Network	Octang Started		
Serial Ports	Tutorial Not sure wh	at to do next? This Tutorial can help.	
GPIO			
Alarms	System Summary		
System	Model	Digi Connect ME	
Users	Ethornot MAC Addroses	00:40:00:28:28:54	=
Applications	Ethernet MAC Address.	00.40.9D.2B.2B.FA	-
RealPort			
	Ethernet IP Address:	192.168.1.248	
Management			
Serial Ports	Description:	None	
Connections	Contact:	None	
Administration	Location:	None	
File Management			
Backup/Restore			
Update Firmware	User Interface		
Factory Default Settings			
System Information	Web Interface (Default):	Enabled	
Reboot	Custom Interface:	Launch Set as Default	
Logout			
Copyr	iaht @ 1996-2009 Diai Interna	stional Inc. All rights received	
Соруг	www.diai.c		-

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!

<u>D</u> atei <u>B</u> earbeiten <u>A</u> nsicht <u>C</u> hronik	Lesezeichen Extras Hilfe		
SimonsVoss Technologies Gm 🗴 🧮 SimonsVoss Technologies 🗴 Digi Connect ME Configuratio 🗴 🕂			
🖉 Meistbesucht 🗍 Erste Schritte 🔊	Aktuelle Nachrichten 📒 Links anpassen 🧕 Outlook Web App		
	<u>^</u>		
	Digi Connect ME Configuration and		
DIGI	Management		
	😗 Help		
Home	Network Configuration		
Configuration	Ethornot ID Sottings		
Network Sorial Ports	· Luieniet ir Settings		
GPIO	Obtain an IP address automatically using DHCP *		
Alarms	Use the following IP address:		
System Users	* IP Address: 192.168.1.248		
Applications	* Subnet Mask: 255.255.0		
RealPort	Default Gateway: 192.168.1.1		
Management	Enable AutoIP address assignment		
Serial Ports Connections	* Changes to DHCD. ID address, and Subnet Mask may effect your		
Administration	browser connection.		
File Management	Apply		
Backup/Restore	. 45.7		
Factory Default Settings	Network Services Settings		
System Information	Socket Tunnel Settings		
Redoot	Advanced Network Settings		
Logout			
Сору	ight © 1996-2008 Digi International Inc. All rights reserved.		
	www.dial.com		

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

<u>D</u> atei <u>B</u> earbeiten <u>A</u> nsicht <u>C</u> hronik	<u>L</u> esezeichen E <u>x</u> tras <u>H</u> ilfe						٢
SimonsVoss Technologies Gm 🗙	SimonsVoss Technologies	🗙 🛛 Digi Connect ME Con	figuratio × +				
() 192.168.1.248/config/network/	/network_advanced_config.htm	⊽ C ⁱ	8 - snmp	▶ ☆ 自	+	r =	
A Meistbesucht 🗍 Erste Schritte 🔊	Aktuelle Nachrichten 📒 Links a	npassen 🧕 Outlook Web App					
		Chten 🚆 Links anpassen 💽 Outlook Web App					
	Diai Connect M	E Configuration	n and Manad	ement			
	Jigi connecti i	eenigurution	. ana manag				
						Holp	
Hama					U	нер	
Home	Network Configura	tion					=
Configuration	Ethernet IP Settings						-
Serial Ports	Network Services Setting	igs					
GPIO	Socket Tunnel Settings						
Alarms	Advanced Network Set	ttings					
Users	The following settings are	a advanced settings used t	to fine tune the netw	ork connection and	networ	,	
Applications	interfaces. The default se	ttings will typically work in	most situations.	one connection and	neewon		
RealPort	IP Settings						
Management	Liest Names	EV 400 D405					
Serial Ports	HOSE Name:	3V_40G_R405					
Connections	Static Primary DNS:	0000					
Administration	Static Frinary DNS:	0.0.0.0					
Backup/Restore	Static Secondary Divs:	0.0.0.0					
Update Firmware		•					
Factory Default Settings	DNS Priority:	Static 🔺 🗘					
System Information Reboot		Ethernet 👻 🔮					
NEDOUL							-

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



User name: SimonsVoss

Password: SimonsVoss

erforderlich
http://192.168.1.94 verlangt einen Benutzernamen und ein Passwort. Ausgabe der Website: "protected area"
SimonsVoss
OK Abbrechen



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

<u>D</u> atei <u>B</u> earbeiten <u>A</u> nsicht <u>C</u> hronik <u>L</u> ese	zeichen E <u>x</u> tras <u>H</u> ilfe	_	(m 20)		x
SimonsVoss Technologies Gm 🗙	SimonsVoss Technologies	× SimonsVoss Ethernet Funk	Rou × +		
€ € 192.168.1.135		⊽ C 🛛 🖉 ▼ snmp	▶ ☆ 自		≡
🖉 Meistbesucht 🔅 Erste Schritte 🔊 Aktu	elle Nachrichten 📒 Links ar	npassen 🧕 Outlook Web App			
Simons -Va				English	•
technologies	SYSTEM INFOR	MATION CONFIGURATION	ADMINISTRATION	CONTACT	
OVERVIEW CONNECTION					
System Inform	ation: TCP	-Connection			Е
C	onnected with:	Port			
1	92.168.1.21	2101			
•					۴.

SimonsVoss

System Manual SmartIntego Configuration – NETWORK DHCP is pre-set to 'On' in storage mode. Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe SimonsVoss Technologies Gm... 🗙 SimonsVoss Technologies ... 🗙 SimonsVoss Ethernet Funk Rou... 🗙 ÷ 🔎 🏠 🗎 🗲) 🛞 192.168.1.135 4 俞 🔊 Meistbesucht 🗍 Erste Schritte ঌ Aktuelle Nachrichten 📒 Links anpassen 🧕 Outlook Web App English 👻 Simons Voss technologies NETWORK PORT ETHERNET INTERFACE Configuration: Change network settings Network settings: Host Name: SV_142035 DHCP: On 👻 IP-Address: Subnetmask: Gateway: DNS-Server1: DNS-Server2: Save config

CAUTION: Incorrect settings may cause the board to lose network connectivity.

SimonsVoss

System Manual SmartIntego

DHCP 'Off' and other setting options.

Datei Bearbeiten Ansicht Chronik Lesezeiche	n E <u>x</u> tras <u>H</u> ilfe								x
SimonsVoss Technologies Gm 🗴 🗮 Sim	onsVoss Technologies	× Simor	sVoss Ethernet Funk	cRou ×	+				
€ € 192.168.1.135		⊽ C ⁱ	8 - snmp	م	☆	Ê	+	^ =	
Maistherucht 🔅 Erste Schritte 🔊 Aktuelle Na	chrichten 💶 Links annas	ren 🔟 Ou	tlook Web App						
		sen 🛃 Ou	поок мер Арр				-		- 🔺
Simons Voss	•						En	glish 🔻	
technologies	SYSTEM INFORMAT	TION C	ONFIGURATION	ADMINI	STRA	ΓΙΟΝ	CONT	ACT	
NETWORK									
PORT									
ETHERNET INTERFACE									
Configuration: Cl	hange net	work	setting	S					=
				·					
Network settings:									
Host	lame: SV_	142035							
DHCP:	Off	•							
IP-Add	192.	168.1.135							
Subne	255.	255.255.0							
Gatew	ay: 192.	168.1.1							
DNS-S	erver1: 192.	168.0.1							
DNS-S	erver2: 192.	168.0.5							
Save	config								
CAUTION: Incorrect s	ettings may cause the	board to	ose network con	nectivity.					-
٠ [•	

Configuration – Port

Simons Voss				English	•
technologies	SYSTEM INFORMATION	CONFIGURATION	ADMINISTRATION	CONTACT	

NETWORK PORT ETHERNET INTERFACE

Configuration: port settings

TCP port settings:

SV Port: 2101
Teinet: 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'



NETWORK PORT ETHERNET INTERFACE

Configuration: Change Ethernet Interface settings

AUTO

Ŧ

Ethernet Interface:

Speed:

Save config

ADMINISTRATION – PASSWORD Password change for web login.



PASSWORD REBOOT

Administration: Change password

New password:

New password:	
Confirm password:	

Save password

ADMINISTRATION - REBOOT



Different contact options are available.



Contact Simons Voss.

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Feringastraße 4 85774 Unterföhring Deutschland

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

E-Mail

5 SI.GN2.ER

5.1 System connections



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

General information

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

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	
Tamparatura	Operational: -10 °C to +55 °C
remperature	Storage: 0 °C to +30 °C
Humidity	Max. 90%, non-condensing
Environmental Class	IP20
Interfaces	
	10T/100T, HP Auto_MDIX, DHCP client, IPv4
	TCP service: 1x at Port 2101
	UDP service: 1x for Digi-Scan
TCP/IP	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

5.3 Images and dimensions





(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.



5.6 Dimensions of lower housing shell

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.

New Proje	ect - Smart	Intego			x
Project:					
Name:		SmartIntego I	I		
Password:		•••••			
Confirm pa	assword:	•••••			
Locking sy	stem:				
Password:		•••••	••••		
Confirm pa	assword:	•••••	••••		
Attention When you system.	! Please sto u lost pass	ore your passw words, you will	ords in safe pla not able to pro	ce! gram your lock	ing
🔲 Launch 📝 Open t	SmartInte his project	go Manager as default			
			Create	Cancel	

- 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.

NOTICE

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

7. Press 'Create' to continue.

File	Edit Tools	oning, onidiana	cyo				
rile ?h	New		0				
	Open						
<u>~</u>	Close		ID:	1			
		lfg_0001)	Name:	CardCfg_0001			
	Save	WL_0001)	Return timeout:	10	1 / 10 sec		
	Save As		Unique ID:	v			
	Export		Card setups:	0			
			ID Name Offs	et Remote (Bytes) Lend	th Remote (Bytes) Offset Local (Bytes	.)	
	<u>R</u> ecent Files					*	
	Exit						
-							
						*	
			Card type:		v		
			Card parameters:				
			ID Name Valu	ie			
						*	
Pane	łu.						

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

Organisieren 🔻	Neuer Ordner							
 Bilder Dokumente Musik Videos 		•	Name CardDriver Confgen_cemu_package_lib	Änderungsdatum 19.09.2014 08:56 19.09.2014 08:56	Typ Dateiordner Dateiordner	Gr	öße	
System (C:) System (C:) Subten (D:) Subten (D:) ServSup (\\MGW Produktion (\\ ServSup (\\MGW Verwaltung (\ Software (\\M Software	1) (H:) SM) (/;) (MGM) (P:) (MGM) (Q:) ((MGM) (S:) (GM) (T:) (m) (Z:)	•						
Dateiname: Dateityp:	SmartIntego II.ikp Project files (*.ikp)							

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.

File Edit Tools Help	
Online integration	
Card configurations	
E Card config. (Card Config.	
Locks Return timeout: 10 1 / 10 sec	
Unique ID:	
Card setups: 0	
ID Name Offset Remote (Bytes) Length Remote (Bytes) Offset Local (Bytes)	
A	
•	
Card type:	
Card parameters:	
ID Name Value	
Ready	0%

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.

SmartIntego II (Card config) - SmartInteg	go				
File Edit Tools Help					
i 🎦 🚔 📕 📑	_ م				
Online integration	ID:	1			
Card configurations	Name:	CardCfg_0001			
Locks	Return timeout:	10	1 / 10 sec		
	Unique ID:				
	Card setups:	1			
	ID Name	Offset Remote (Byte	es) Length Remote (Bytes)	Offset Lo	
	1 CardCfgSe	etur 1			
	4				
	Card type:	MIFARE			
	Card parameters:	MIFARE			
	ID Name	DESFIRE MIFAREPLUS			
	1 KeyType	KEYA		•	
	2 Key	100456700	••		
	3 SectList	1,2,3,4,5,6,7,8,9	9,10,11,12,13,14,15		
				Ŧ	
Ready					0 %

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.

SmartIntego II (Card config) - SmartInte	go			
<u>F</u> ile <u>E</u> dit <u>T</u> ools <u>H</u> elp				
i 🛍 🚔 🔜 🚬 i	۹ .			
Online integration	ID:	1		
Card config. (CardCfg_0001)	Name:	CardCfg_000	01	
Locks	Return timeout:	10	1 / 10 sec	
	Card setups:	2		
	ID Name I Mifare Cl Z Mifare Dl Card type: Card parameters: ID Name I AppId Z Commun G FileNo FileSize	Offse assic 0 SFire 0 UESFIRE icationMode [code 2 No 0	et Remote (Bytes) Length Remote (Bytes) Offset 1 0 1 Value 1 ENCRYPTED AES O 0 STANDARD O 0	
Ready				0%

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.

SmartIntego II (Card config) - SmartInteg	go			
<u>F</u> ile <u>E</u> dit <u>T</u> ools <u>H</u> elp				
: 🔁 🚅 🖬 📙 :	ے م			
Online integration	ID:	1		
Card config. (CardCfg_0001) Card Config. (CardCfg_0001)	Name:	CardCfg_00		
Locks	Return timeout:	10	1 / 10 sec	
	Unique ID:			
	Card setups:	3		
	ID Name	Offse assic 0	Remote (Bytes) Length Remote (Bytes) Offset	
	2 Mifare DE	SFire 0		
	3 Mifare Plu	us O	1 0	
	•	(·······	
	Card type:	MIFAREPLUS		
	ID Name		lue	
	1 AesKey		*	
	2 IsSCard		•	
	4 ProxChee	:kKey		
	5 ProxCheo	:k	•	
	7 SectList	1	3,4,5,6,7,8,9,10,11,12,13,14,15	
			Ψ	
Ready				0 %

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.

SmartIntego II (Lock) - SmartIntego		
<u>File E</u> dit <u>T</u> ools <u>H</u> elp		
i 🔁 🚅 🔙 🚊 i		
Online integration Image: Card configurations Image: Card config. (CardCfg_0001) Image: Temp. white list (TWL_0001) Image: Card configuration configuration Image: Card configuration Image: C	UIDs: UID	Import Export Read Remove
Open Project		100 %

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

	e chaid cai	tor		l		x	
Datei	Bearbeiten	Format	Ansicht	?			
JID 30000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000	00020000 00020002 00020003 00020004 00020005 00020006 00020008 00020008 00020008 00020008 00020008 00020008 00020000 00020000 00020000 00020000 00020000						4
03000	0020011						-
	3000 30000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000	30000020001 30000020002 30000020003 30000020004 30000020005 30000020006 30000020007 30000020008 300000020008 300000020008 300000020008 30000000008 300000000008 30000000000	30000020001 30000020002 30000020003 30000020004 30000020005 30000020006 30000020008 300000020008 300000020008 300000020008 30000000000000000 300000000000000	30000020001 30000020002 30000020003 30000020004 30000020006 30000020007 30000020008	30000020001 30000020002 30000020003 30000020004 30000020005 30000020006 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008	30000020002 30000020002 30000020004 30000020005 30000020006 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008 30000020008	30000020002 30000020002 30000020003 30000020004 30000020006 30000020007 30000020008 3000002008 3000000008 30000000008 30000000008 30000000000

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.

Read White List - SmartIntego					
UID:	D72CF60B				
	Add Cancel				

9 Radio network configuration

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

SmartIntego II (Card config) - Smar	tIntego				
File Edit Tools Help					
🗄 🎦 💕 🔓 🥸 SmartIntego Manag	er				
Online intec Card Reader Card Reader Service Cards	•	1 CardCfg_0001			
Lock Dptions	meout: 1 Unique 1D:	10 :	1 / 10 sec		
	Card setups:	3			
	ID Name 1 Mifare Classi 2 Mifare DESF 3 Mifare Plus 4 Card type: Card parameters: ID Name 1 AesKey 2 IsSCard 3 Key 4 ProxCheckK 5 ProxCheckK 6 SecLevel 7 SectList	Offset Remote (Byte ic 0 0 MIFAREPLUS V Value 0 iey 0 3 1,2,3,4,5,6,7,8,9,5	I Length Remote (Bytes) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Offset 0 0 0 0 0 0 0 0 0 0 0 0 0	
Ready					0 %

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'.

sina anage manager re	rsion 2.6.2	
Network ID: DDDD	Radio channel: 0	
WaveNet_11_5		
J		
- Search in view for Chip ID		
	Start search <u>M</u> inimise	Save Exit

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

Administration	×
 Update topology Find IP or USB Gateway Find Chip ID Add: IP or USB Gateway Network statistics 	Optimised
ОК	Exit

5. Select 'IP address' and enter the IP address for the GatewayNode.
| | Add: IP or USB Gateway | x |
|---|------------------------|--------|
| | Select connection | |
| | C COM . ● IP address | C Name |
| | 169 . 254 . 170 . 1 | |
| | OK | Exit |
| ⇒ | | |

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.

Network options					
Network parameters	Network parameters for GN_ER - 169.254.170.1.				
Network ID:	4711				
Radio frequency:	9				
Network mask:	WaveNet_11_5				
Do you want to	Do you want to add this node?				
Yes	No				

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 MHz+n*0.2 (n=1,2,...9)

Network options					
Network parameters f	Network parameters for RN_ER - 169.254.244.165.				
Network ID:	4780				
Radio frequency:	1				
Network mask:	2 3 4				
Do you want to a	5 ,6 ,7				
Yes	8 9 11 for Malaysia (868,100000 MHz) 12 for Hono 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	Network parameters for RN_ER - 169.254.244.165.				
Network ID:	4780				
Radio frequency:	1				
Network mask:	WaveNet_11_5 WaveNet_8_8				
Do you want to	WaveNet 11_5 WaveNet 12_4				
Yes	No				
>					

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

Network ID: 4711	Radio channel: 9	
□ WaveNet_11_5 □ GN_ER (0×000 LN (0×002) LN (0×002)	6_0x0021;0000ADDA) 192.168.203.7 GatewayNode at 5;00000166) Main Door 7;00019F6A) Office Door	Main Door
Search in view for Chin ID	nr address	
	Start search <u>Minimise</u>	Save Exit

 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'.

Administration of GN_ER (0x0006_0x0021; 0000ADDA)			
Configuration			
Name : GatewayNode	e at Main Door		
C Replace with Chip ID	0000ADDA		
C Reset/delete			
C Move to another master seg	gment		
Maintenance			
C Search master segment	🗖 only known		
O Update branch	🗖 Optimised		
Find Chip ID			
C Ping			
C Restart			
	Evà		

11. 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.)

X
166
Exit

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

⇒

⇒

X
reached
RSSI(dBm)
-51
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.

Network ID: 4711	Badia akawat 0	
NEWOR ID: 4711	n auto crianner. J	
⊡ WaveNet_11_5		
Ġ GN_ER (0x000	6_0x0021;0000ADDA) 192.168.203.7 GatewayNode at	Main Door
LN (0x0026	i; 00000166) Main Door	
Search in view for Chip ID (or address	
	Start search Minimise	Save
	Search for next Maximise	Help

⇒

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

 Replace with Chip ID Reset/delete Move to another master segment
 Reset/delete Move to another master segment intenance Search master segment only known Update branch Optimised Find Chip ID Ping Restart
C Move to another master segment intenance C Search master segment C Update branch C Update branch Find Chip ID Find Chip
intenance O Search master segment I only known O Update branch I Optimised O Find Chip ID O Ping O Restart
intenance C Search master segment C Update branch C Find Chip ID Ping C Restart
 Search master segment Update branch Optimised Find Chip ID Ping Restart
 C Update branch □ Optimised ○ Find Chip ID ○ Ping ○ Restart
 Find Chip ID Ping Restart
 Ping C Restart
C Restart

10 Configuration of locks (locking devices)

📲 SmartIntego II (Lock) - SmartIntego				
<u>File Edit Iools Help</u>				
i 🔁 📂 🔚 🚬 i	ے م			
Online integration ▼ Card configurations Card config. (CardCfg_0001) E Temp. white list (TWL_0001) Locks Locks Lock (Main Door)	ID: Name: WN Address: Device Address: Chip ID: Version: SID:	1 Main Door 0026 00000200 00000166 SW=31.11 TM=18.3 / 1 Target: 1065	5.0.01 Actual:0	Read Program Reset © WaveNet © SmartCD.MP Read Access List
	LID: PHI: Open At Empty White List No Beep Always Transmit UID Order Data Status:	128 8534566 (00DSNTU) 24.30-30.MP.FD.ZK.G2 9 Programming error	0	Door Monitoring Emergency Opening
Save Project				100 %

- 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.

- 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.

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.

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.

www.smartintego.com

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

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.

Lock Door Monitoring - SmartIntego	×
Door open settings:	
Read interval for the fastening screw:	Off 🔹
'Door open too long' event after:	Off 0.5
External Sensors: Invert 'Door open' input Invert bolt input	1 2 3 4
Transmission of Events: Alarms Door open' events Lock bolt events Door handle events	5
0	Cancel

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.

Lock Door Monitoring - SmartIntego	×
Door open settings:	
Read interval for the fastening screw:	Off •
'Door open too long' event after:	Off 🔹
External Sensors:	Off 0.2 0.5 1.0
Transmission of Events:	2.0 5.0 8.0
 'Door open' events Lock bolt events Door handle events 	
0	K Cancel

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

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

Lock Door Monitoring - SmartIntego							
Door open settings:							
Read interval for the fastening screw:	Off 🔹						
'Door open too long' event after:	Off						
External Sensors: Invert 'Door open' input Invert bolt input							
Transmission of Events: Alarms Door open' events Lock bolt events Door handle events]						
0	K Cancel						

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.

ľ	Lock Door Monitoring - SmartIntego							
	Door open settings:							
	Read interval for the fastening screw: Off							
	'Door open too long' event after: Off							
	External Sensors: Invert 'Door open' input Invert bolt input							
	Transmission of Events: Alarms Door open' events Lock bolt events Door handle events							
	OK Cancel							

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

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.

SI SI	SmartIntego II (Lock) - SmartIntego						
File	Edit Tools Help	7					
2	New		<u>م</u>				
<u>≧</u> ×	<u>O</u> pen <u>C</u> lose	•	ID:	2		Read	
		Ifg_0001)	Name:	Office Door		Program	
	Save	WL_0001)	WN Address:	0027		Reset	
	<u>S</u> ave As		Device Address:	00000300		WaveNet	
	Export +		Chip ID:	00019F6A		SmartCD.MP	
	Recent Files		Version:	SW=31.11 TM=18.3 /	5.2.01	Read Access List	
	<u>N</u> ecent mes			Target:	Actual:		
	E <u>x</u> it		SID:	1065	1065		
-			LID:	129	129		
			PHI:	12345 (0000FMT)			
			Open At Empty White List				
			No Beep				
			Always Transmit UID				
			Order Data	SI.SHAS07A002AA10G	2	Door Monitoring	
			Status:	A OK		Emergency Opening	
Save	Project					100 %	

15 SmartIntego software functions

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

Speichern unter		×
SimonsVoss > SmartInte	go 🗸 🗲 SmartIntego du	urchsuchen 🔎
Organisieren 🔻 Neuer Ordner		!≡ ▾ 🔞
🔆 Favoriten	A Name	Änderungs
Desktop	SmartIntego II.ikp	13.07.2015 :
Downloads	=	
Bibliotheken Bibler Dokumente Musik Videos		
Normal Computer		
System (C:)	- III	<u>+</u>
Dateiname: SmartIntego II.ikp		-
Dateityp: Project files (*.ikp)		
) Ordner ausblenden	Speichern	Abbrechen

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

S 📲	SmartIntego II (Lock) - SmartIntego						
File	Edit Tools	Help	1				
2	New			۵ م			
≧ ★	Open Close		•	ID:	1		Read
			Cfg_0001)	Name:	Main Door		Program
	Save			WN Address:	0026		Reset
	Save As			Device Address:	00000200		WaveNet
	Export	•	<u>C</u> onfigu	ration Data	00000166		SmartCD.MP
	Pasant Filos		Access I	List	SW=31.11 TM=18.3 / 5.0.01		Read Access List
	Recent Files	,		(Target:	Actual:	
	Exit			SID:	1065	1065	
			'	LID:	128	128	
				PHI:	8534566 (00DSNTU)		
				Open At Empty White List			
				No Beep			
				Always Transmit UID			
				Order Data	Z4.30-30.MP.FD.ZK.G2		Door Monitoring
				Status:	🔗 Programming dem	and	Emergency Opening
Save	Project						100 %

Table contents --> configuration data

node type	device address	wn address	connectio n details	chipID	nick name
GN_ER	0x0000010 0	0x0021	192.168.20 3.7	0000ADDA	GatewayNo de at Main Door
LN_I_MP	0x0000020 0	0x0026	192.168.20 3.7	166	Main Door
LN_I_SH	0x0000030 0	0x0027	192.168.20 3.7	00019F6A	Office Door

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.

📲 Si	SmartIntego II (Lock) - SmartIntego								
File	File Edit Tools Help								
1	New								
<i>≧</i> ×	Open Close	•	ID:	1		Read			
		Cfg_0001)	Name:	Main Door		Program			
	Save	WL_0001)	WN Address:	0026		Reset			
	Save As		Device Address:	00000200		WaveNet			
	Export +	<u>C</u> onfigu	ration Data	00000166		SmartCD.MP			
	Depart Film	Access I	ist	SW=31.11 TM=18.3 / 5.0.01		Read Access List			
	Recent Flies		(Target:	Actual:				
	Exit		SID:	1065	1065				
		·	LID:	128	128				
			PHI:	8534566 (00DSNTU)					
			Open At Empty White List						
			No Beep						
			Always Transmit UID						
			Order Data	Z4.30-30.MP.FD.ZK.G2 Door Monit		Door Monitoring			
			Status:	😝 Programming dem	and	Emergency Opening			
Save	Project					100 % 📑			

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.

SmartIntego II (Lock) - SmartIntego							
File Edit Tools Help							
P Eind Node							
Online integration	ID:	1		Read			
Card configurations	Name:	Main Door		Program			
Femp. white list (TWL_0001) Locks	WN Address:	0026		Reset			
Lock (Main Door)	Device Address:	00000200		WaveNet			
	Chip ID:	00000166		SmartCD.MP			
	Version:	SW=31.11 TM=18.3 / 5.0.01		Read Access List			
		Target:	Actual:				
	SID:	1065	1065				
	LID:	128	128				
	PHI:	8534566 (00DSNTU)					
	Open At Empty White List						
	No Beep						
	Always Transmit UID						
	Order Data	Z4.30-30.MP.FD.ZK.G2	2	Door Monitoring			
	Status:	😝 Programming dem	hand	Emergency Opening			
Save Project				100 %			

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.

SmartIntego II (Lock) - SmartIntego		the second second	1	
File Edit Tools Help				
🗄 🐑 💕 🔓 🛠 SmartIntego Manager				
Online integ	•	1		Read
C Service Cards	Create Batte	ery Warning Card		Program
i= T Lock: ፼ Options	Create Wav Read Card	eNet Test Card		Reset
Lock (Office Door)	Device A Reset Card			WaveNet
	Chip ID:	00000100		SmartCD.MP
	Version:	SW=31.11 TM=18.3 /	5.0.01	Read Access List
		Target:	Actual:	
	SID:	1065	1065	
	LID:	128	128	
	PHI:	8534566 (00DSNTU)		
	Open At Empty White List			
	No Beep			
	Always Transmit UID			
	Order Data	Z4.30-30.MP.FD.ZK.G2	2	Door Monitoring
	Status:	😝 Programming dem	and	Emergency Opening
Save Project				100 %

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.

SmartIntego II (Lock) - SmartI	Intego		
File Edit Tools Help			
🖹 😭 📔 🛠 SmartIntego N	Manager		
Online integ	•	1	Read
C Service Cards	 Create 	Battery Warning Card	Program
	Create	WaveNet Test Card	Reset
2 COCK E Options	Read C	ard	Neset
Lock (Office Door)	Device A Reset C	ard	WaveNet
	Chip ID:	00000100	SmartCD.MP
	Version:	SW=31.11 TM=18.3 / 5.0.01	Read Access List
		Target: Actual	
	SID:	1065 1065	
	LID:	128 128	
	PHI:	8534566 (00DSNTU)	
	Open At Empty White	List 📃	
	No Beep		
	Always Transmit UID		
	Order Data	Z4.30-30.MP.FD.ZK.G2	Door Monitoring
	Status:	Programming demand	Emergency Opening
Save Project			100 %

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

Reset card: added service cards can be reset.

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.

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.

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

Simonsvoss	17 Smartiniego Manager - Other functions 0277
System Man SmartIntego	ual
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.
	Administration
	C Update topology 🔲 Optimised
	C Find IP or USB Gateway
	C Find Chip ID
	C Network statistics
	OK Exit
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, dependin 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

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.

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.

Add. IF OI USB Gateway	
Select connection	
	C Name
19	
<u>ОК</u>	Exit

Add: IP or USB Gateway	×
Select connection	
C COM 💿 IP address	C Name
192 . 168 . 203 . 7	
ОК	Exit

Add: IP or USB Ga	iteway	×
Select connect	tion	
С сом	O IP address	Name
DNS / ETC	/HOST	
ОК		Exit

18 WaveNet statistics

Displays all configured SmartIntego Manager components.

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.

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

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.

20 GN_U(X), GN_ER – Administration

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

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

- 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:

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.

21 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	

- Result of search:

provides an overview and possible configuration in this master segment.

Search results					
GN_ER (0x0006_0x0021;	00000357)				
Nodes in this se	egment:	Nodes	in other segments:	New node	es:
Node	RSSI(dBm)	Node	RSSI(dBm)	Node	RSSI(dBm)
LN_I_SH(00000352)	-62			GN_R(0000036D) LN_I_MP(0000036A)	-39 -67
		<		<	>
		<u>, </u>		,	Exit

- 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

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:

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.

Select router(s)				
	GN_R (0x0022_0x0041; 0000036D) GN_ER (0x0006_0x0021; 00000357)	-		
[Cancel]		

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.

22 LockNode configuration

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

Administration of LN (0x0027; 00000352)					
	Configuration Name : Door 12				
	 Replace with Chip ID Reset/delete Move to another master segment 				
	Maintenance C Search master segment C Update branch C 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:

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:

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.

Result		×
	LN_I_MP with Chip ID 00000166 can be n	eached
	Gateway/Router	RSSI(dBm)
	GN_ER (0x0006_0x0021; 0000ADDA)	-54
	ок	Exit

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
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.

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



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).

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.

27 Declaration of Conformity

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

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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	Feringastrasse 4
	85774 Unterföhring
	Germany