

# **User manual**

# INTRODUCTION

This guide details how to program the wire to wireless device (translator), its wireless coverage extenders (expanders) and the system's child devices. Programming is carried out before the translator device (thus the wireless system) is connected to the hard wired control panel.

System coverage can be increased by the using range expander modules; these must be directly powered by suitable EN54-4 compliant 12-24V<sub>DC</sub> power supply units.

If the installation requires a large number of devices, it is recommended to program them before deploying to their intended locations. It is also recommended to make a complete site survey before starting at all: doing this will help to determine the optimal device's position arrangement.

This guide describes, also, the available auxiliary procedures useful for diagnosing potential problems, assessing their causes and carrying out solutions.

Before you start, be sure to have the suitable **WirelEx Fire** software installed on a portable pc and a RS232 serial connection (9 pin DE-9 type connector cable).

#### WIRELESS DEVICES - GENERAL DESCRIPTION

A wireless fire security system is composed by a combination of the following devices:

#### WIRE TO WIRELESS TRANSLATOR

This is the core of a wireless system.

It communicates continuously with all the other wireless devices.

On the other hand it communicates with the control panel of the wired intelligent fire security system.

Summarizing: the translator communicates with the control panel through wire and with all wireless devices through radio.

As any other fire security system, the whole system (hard wired and wireless) is controlled by the control panel; the translator is just the interpreter that holds exclusive rights of communication with the wireless devices, thus making possible communication between the control panel and the radio devices: this is why this device is called "translator". The wireless system overall configuration, as created by the installer, is stored in this device.

# WIRELESS CONVENTIONAL EXPANDER

Permits to add a wireless system to a conventional control panel; this device is connected directly to the zone line.

This type of expander silences its wireless sounders after receiving the suitable signal from the conventional panel's sounder line.

#### WIRELESS EXPANDERS

Translators and conventional expanders communicate with other wireless devices only in a certain range or if consistent obstacles are out of the way. When wireless area coverage needs to be expanded or the environment poses obstacles to radio communication, it is possible to use one or more expanders.

#### SENSORS

These devices sense smoke and / or heat in the environment; if heat and / or smoke exceed a certain limit, the wireless system goes in alarm.

#### SOUNDERS

These devices emit sound when the wireless fire security system is alarmed in order to alert people in the protected environment that they are in danger. Sounders can be combined with inbuilt strobes that add to the acoustic indication a visual one.

#### BEACONS

They have a similar function to the sounders with the difference that they emit light and not sound. When the fire system is alarmed, the light signal from these devices alert people in the protected environment that they are in danger.

#### VOICE ANNUNCIATORS

These devices are actually very similar to sounders: instead of emitting preselected standard tone patterns, voice annunciators emit pre-recorded human voice messages.

#### CALL POINTS

Call points are used to manually raise an alarm condition in the protected environment.

#### MODULES

It could be sometimes necessary to connect the wireless system to other devices that are not designed to communicate with the translator; to connect them to the fire security system, a module must be used.

External devices generally work on an on / off basis.

First example: an external device is activated, the connected module detects this event and alerts the translator.

Second example: the wireless system falls in alarm, the module detects this event and activates the external device.

Module devices are classified as input or output types; the first example above gives an idea of what is an input module; the second example above gives an idea of what is an output module.

#### DOOR HOLDERS

These devices keep fire doors open. In the event of a fire alarm, the fire doors are released to allow them to shut.

# REMOTE INDICATOR LAMPS

When the system is alarmed, these devices emit a continuous light.

# WIRELESS SYSTEM - BASIC INFORMATION

The translator is connected to the control panel through the hard wired intelligent loop; on the other hand, the translator communicates through radio signals with all wireless devices.

The translator communicates with the wireless child devices either directly or indirectly through the expander modules.

The main control panel interacts with the child devices through the translator.

When configuring the wireless system, you must program the translator and the expanders (if present).

Before you position the system components to their locations take into account that:

- there is a maximum number of child devices and expanders that can be linked in a single wireless system, so to its central node: the translator;
- the communication range of the translator, expanders and all child devices is limited; range shrinks in indoor environments.



# THE RADIO SURVEY KIT





It is suggested to keep all wireless devices at least 2 meters distance from:

- equipment using large amounts of electrical current
- large metal objects, structures or metal ceiling structures
- fluorescent lighting fixings
- computers, their cabling and network cabling
- the control panel.

If you need a number of child devices higher than the maximum number allowed by a single wireless system, you can connect to the control panel more than one translator: all wireless child devices will be partitioned between their "father" translators.

This diagnostic kit allows you to discover the best possible positions for child devices in terms of wireless signal's quality. The kit is composed by a wireless detector, an expander, a tablet, a dedicated dongle interface device and a pole.

You simply place the kit's expander in the location where a translator or expander is planned to be installed.

Using the kit's detector, you assess, by sampling the various possible locations, the wireless signal's quality.

Assessment values are visualized on the tablet's screen.

To assess locations at ceiling level, it is possible to fit the test detector at one end of the pole.

# SINGLE WIRELESS SYSTEM LIMITATIONS AND STRUCTURAL EXAMPLES

Maximum number of child devices program- mable in a single wireless system	32 child devices	Child devices do not include the expander modules
Maximum number of output child devices programmable in a single translator, wireless conventional expander or expander	16 output child devices	Sounders, voice annunciators, output modules, beacons, remote indicators, door holders
Maximum number of expanders programma- ble in a single wireless system	7 expanders	
Maximum number of expanders connected sequentially one after another	5 expanders	
Maximum number of expanders connected to a single translator, wireless conventional expander or another expander	3 expanders	



# INSTALLING THE WIRELEX FIRE SOFTWARE

Double click on the WirelEx Fire setup executable file.

Select Setup Language	Select language that will be used by the installation procedure. Click <b>OK</b> .
Setup - WirelEx Fire       Image: Comparison of Comparison o	Select the destination folder for the software on the PC or leave the default setting; to change the folder select <b>Browse</b> <b>Next &gt;</b> for proceeding.
Setup - WirelEx Fire Select Start Henu Folder Where should Setup place the program's shortcuts? Setup will create the program's shortcuts in the following Start Menu folder. To continue, dick Next. If you would like to select a different folder, dick Browse. WirelEx Fire Browse	Select a "Start Menu" folder where the shortcut links to the <b>WirelEx</b> software will be stored. With <b>Browse</b> you can select an existing folder or create a new one by editing the text box. <b>Next</b> > for proceeding.



#### 

	Completing the WirelEx Fire Setup Wizard
	Setup has finished installing WirelEx Fire on your computer. The application may be launched by selecting the installed shortcuts.
	Click Finish to exit Setup.
	Launch WirelEx Fire
R	
	Einish

On the setup final window you can check the Launch WirelEx Fire option: doing so, when you click Finish, you will start immediately the execution of the WirelEx software.

If you deselect the Launch WirelEx Fire option and then click Finish, you can execute the WirelEx software successively.

# INITIAL CONFIGURATION

Connect the computer to the translator with a RS232 serial cable.

Start the WirelEx Fire software by double clicking on the WirelEx Fire icon.

😵 WirelEx Fire			
File Options Tools Help			
🗄 🙅 Collect   🕨 Start 🔳 Stop	💿 Get history   🏷 Clear   🎯 Show topology		
🖻 System 💿 Events 🛄 Status	🝸 Link quality		
System .	Device Address Type Programmed Comment		
	Settings 🛛 🕅		
	General Tabs		
	COM port		
	lunders.		
	Open last system on startup		Select Options > Settings on the main menu.
	Synchronize time with PC		A Settings per un window will oppear
	Use small icons		A Settings pop-up window will appear.
			Select the <b>COM port</b> and <b>Language</b> you are using.
	Language Exclude		
Devices quantity: 0	Apply Cancel		
Fire detectors: 0			
Output devices: 0			
Network devices: 0			
Predicted traffic: 0.00%			
Not connected			
			a
Catting		22	)
settings			
General Taba			
Tabs			
COM port			
LICE Corial Part	(COM92)		In the Settings pop-up you can also:
USB Selial Foil	(COM33)		
			Open last system on startup
Interface			If checked, loads automatically the last saved system config
Open last sv	stem on startun		uration life.
opennuar sy	atemenaturup		Synchronize time with PC
Synchronize	time with PC		Translator and expander module's time is synchronized with
			the time of the computer.
📃 📃 Use small ico	ons		
			Use small icons
			It checked, the software will use small icons instead of the
Language.			Stanuaru unes.
Language			
English			All Settings changes will take place only when the WirelEx
			software will be closed and restarted again.
			-
	Apply Cancel		

# LOOKING UP FOR FREE CHANNELS - THE "RFANALYZE" TOOL

The wireless system will work on a radio channel that you must select during configuration; for this reason it is suggested to:

- select a channel that is not used by other wireless systems

or

- select a channel that is not excessively congested.

To assess the degree of congestion of a channel use the RFAnalyze software.

Connect the computer to a powered translator or expander through the serial cable.



From WirelEx select the Tools > Radio field analyse utility item from the main menu..

The RFAnalyze program will be launched:



#### Click the Options > Settings. The Settings pop-up window will appear:



Select the appropriate COM port (Com Port).

Check if Language and Frequency Band options are appropriately selected.

Click **Apply** to confirm changes, **Cancel** to discard them.



Click the **Start** icon to begin channel congestion scanning.

To stop scanning click the Stop icon.

The graphic lines show the degree of wireless congestion on ALL channels.

A single graphic line and its colour is associated to the representation of the wireless traffic congestion on one single channel.





On the right side of the window, uncheck the boxes relating to the channels of which you want to hide the congestion graph.

Keep checked just one single box.

By checking a single channel's congestion graph at a time, assess which one is "flatter" or "less disturbed".

The "flattest" and "less disturbed" channel is the one on which is best for your wireless system to work.

You can change the time scale of the graphic representation by sliding the **Data selection period** cursor located in the bottom area of the screen.

Located in the bottom area of the screen, the **Received** signal level mutually exclusive selection buttons allow you to select whether you want to visualize congestion in dBm or RSSI units.

# CREATE A NEW SYSTEM

File     Options     Tools     Help       New system     Image: Clear
New system.         Image: Ger history         Image: Ger his
Sive system         Ill Link quality           Sive system as         Open system           Open system         Device Address Type Programmed Comment           Diport system as         Device Address Type Programmed Comment
Seve system as  Device Address Type Programmed Comment  Open last system  Expont system as  Device Address Type Programmed Comment  Comment Comment  C
Open system     Open last system     Export system as      Depnet events as
Open last system           Export system as
Export system as
Export events as >
Quit 1
Devices quantity: 0
Fire detectors: 0
Output devices: 0
Network devices: 0
Predicted traffic: 0.00%
Not connected

the WirelEx window select the File option on the in menu.

Irop down menu appears.

ect the New system ... option.



The System window will pop-up.

If you need to do so, you can change the System code.

You can select here the wireless Channel.

Apply to confirm, Cancel to discard.

Communications between wireless devices are exchanged through seven distinct radio channels.

When configuring the wireless system, you must assess which channel is free or less congested and instruct the system to operate on that channel.

The advantage of operating on a free, or relatively free, channel is to have the best communication guality between the wireless devices.

#### SYSTEM CODE

A translator and the wireless devices, directly or indirectly connected to it, constitute a single wireless system "cluster".

If, in a fire security system, there is more than one translator (so more than one wireless "cluster"), it can happen that at least two or more wireless systems use the same channel.

Every wireless system has a system code.

Its purpose is to distinguish different wireless systems and to avoid communication conflicts.

It is composed by two numbers. The fist number is by default randomly generated by the WirelEx software during configuration; you can modify this number if it is necessary for you to do so.

The second number is randomly automatically generated by the WirelEx too, but you cannot change it.



Added the central node, a property window will pop-up; let's assume you have added a translator:

20-VW2W100-ADV	×
General Address	0.0.0.0:0
supervision period	3 min 🔻
Apply	Cancel

Here you can set the Child expander's supervision period value.

If the translator does not receive at least a communication from one of its expanders in this specified amount of time, "assumes" that the communication with it is lost: a fault condition is then signalled to the control panel.

Apply to confirm, Cancel to discard the setting.



A translator icon now appears in the wireless system's topology tree.

Note that the translator's product code at the right of the icon is printed out with a normal non-bold font; this means that the translator need programming in order to make effective the last change made.

Connect the serial cable (if you have not done so before).

Right click on the translator icon.

On the pop-up menu click on the Program menu item.

You can add your comments (like a device location in the site, "Detector #1"...) to the system's software configuration.

Output devices: 0 Input/output devices: 0 Network devices: 1 Predicted traffic: 0. Not connected	00%		Comment Comment Apply Cancel
Fire detectors: 0 Input devices: 0			Commont .
Devices quantitur 1			
	Comment		
	Read 20-VW2VI00-ADV properties Program 20-VW2VI00-ADV Reste 20-VW2VI00-ADV Restore 20-VW2VI00-ADV to factory settings (clear) Delete 20-VW2VI00-ADV from the system Properties	-	A <b>Comment</b> pop-up will appear; you can type in a 31 alphanumeric characters maximum comment. <b>Apply</b> to confirm, <b>Cancel</b> to discard.
System	Add expander device Add expander device		Right click on the device icon. On the pop-up menu select the <b>Comment</b> option.
Collect Start	Stop Get history Clear Show topology		
File Options Too	ls Help		
TWirelEx Fire v6.2.2.AD	V B14		

# ADD THE CHILD DEVICES

💎 WirelEx Fire					
File Options Tools Help					
G G G G G G	🙅 Collect   🕨 Start 🔳 Stop   💿 Get history   🏷 Clear   🥥 Show topology				
📑 System 📧 Events 🔝 Status 🍸 L	nk quality				
System	Device Address Type Programmed Comment				
Add exp	ander device				
Add chil	d device				
Read 20-	VW2W100-ADV properties				
Program	120-VW2W100-ADV				
Reset 20-VW2W100-ADV					
Restore 20-VW2W100-ADV to factory settings (clear)					
Delete 2	)-VW2W100-ADV from the system				
Properti	es				
Comme	nt				
Devices quantity: 1					
Fire detectors: 0					
Input devices: 0 Output devices: 0					
Input/output devices: 0 Network devices: 1					
Predicted traffic: 0.00%					
Not connected	ii.				

A pop-up window with the list of all child devices will appear:



Right click on the translator's icon.

Select Add child device on the pop-up menu.

Click on the child device icon required.

Quantity field: set the required numeric quantity of the selected child device.

Click Add to confirm, Cancel to discard.



A window pop-ups, allowing you to set the child device's operating parameters.

If in the previous window you specified a Quantity greater than one, you will notice that the Address field refers to the wireless address of only the first device; despite of this, the parameter changes you make in this window will be applied to ALL the new child devices.

😵 WirelEx Fire		x
File Options Tools Help		
Collect   Start Stop 10 Get hist	istory 🏷 Clear 🧔 Show topology	
System	Device Address Type Programmed Comment Starting Comment Address Type Programmed Comment Program 20-SG100 ADV / AUS-ROP Delete 20-SG100 -ADV / AUS-ROP Delete 20-SG100 -ADV / AUS-ROP	
	Properties	
	Comment	
Devices quantity: 2		
Fire detectors: 1 Input devices: 0 Output devices: 0 Input/output devices: 0 Network devices: 1 Predicted traffic: 0.00%		
Not connected		

If you intend, successively, to change a child device's operational parameters:

Right click on the child device's icon.

Select Properties on the pop-up menu.

You need now to program the translator, otherwise the changes you have made will not be effective.

On the system's topology tree, remember:

20-VW2W100-ADV (normal font) = NOT programmed **20-VW2W100-ADV** (**bold** font) = programmed.

This applies to ALL central nodes and expanders.

If you want to see the child devices assigned to a central node or an expander, click on its icon on the system's topology tree; its child devices will be shown in a row-column list at the right of the screen.

The graphic indication in the Programmed column in the child devices list can be:



= Chid device linked (programmed)

= Child device not linked (not programmed)



= Child device linked but in need of update (explained later)

Child devices linking (and programming) will be explained later.



# ACCESSING AND CHANGING CHILD DEVICES' PROPERTIES

On the child device's list, right click on the line you are interested in.

A pop-up menus appears.

Click on the Properties menu option.

Change the desired properties.

Program the child device with the link procedure explained later; if you omit to do so, your changes will not be effective on the real system.

# CHILD DEVICES' COMMON WIRELESS SETTINGS

Child devices have all in common those three parameters:

General	General Address	wireless address; assigned by the software automatically; you cannot change it.
Address 0.0.0.0:1 Parent expander's 1 min checkup period 3 min	Parent expander's check-up period	indicates how often the child device reports its data to his father translator or expander. Battery life and wireless traffic strongly depend on this parameter; do not change it from its default setting if it is not really necessary.
	Supervision period	if the chid device does not report its data in this period of time, the father translator or expander will signal a fault ("no link" fault).





20-SGMCB200-ADV / 20-SGFI200-S-ADV	<b>—X</b>
General Address 0.0.0.0.08 Parent expander's 7 sec • checkup period 3 min •	Led Indication          Image: Settery Discharge         Relay Type         Normally Closed
Voltage output  Activate Output Voltage: 24 V  Constant  Control the integrity of connection	External fault input
Apply	Cancel

20-SGMCB200-ADV / 20-SGFI200-S-ADV BATTERY OUTPUT MODULE

You use this window to set the properties of more than one device type.

If configuring the **20-SGMCB200-ADV**, LED indications for battery discharge events can be disabled by unchecking the **Battery discharge** checkbox.

You can select the action type performed by the activated relay output through the **Relay Type** drop down list.

You can activate the 12/24VDC output by checking the Activate Output box, then selecting its Voltage characteristic profile; through the Control the integrity of connection check box you can enable the supervision of the 12/24 VDC output.

By checking the Do not supervise input box, you instruct the module to ignore tamper and FLT faults.

If you are configuring the 20-SGFI200-S-ADV and SGDH100 devices, only the General (common to all devices) and the Battery Discharge options will be effective.

Apply to confirm, Cancel to discard.

AXIS-RWSM + AXIS-CWS / 20-SGR(	3)S100-ADV	×	
General Address 0.0.0.0.0:1 <sup>°</sup> Parent expander's 7 sec ▼ Checkup period 3 min ▼	Led Indication          Image: Battery Discharge         Supervision         Do not supervise tamper circuit		AXIS-RWSM+AXIS-CWS / 20-SGR(B)S100-ADV Sounder LED indication for battery discharge events can be disabled unchecking the <b>Battery Discharge</b> checkbox- es. You can disable the tamper spring sensor by checking the <b>Do not supervise tamper circuit</b> check box. Apply to confirm, <b>Cancel</b> to discard.
Apply	Cancel		



#### Relay Type

You can select the action type performed by the activated relay output through this drop down list.

New 20-SGVA200-ADV					×	2
General		Led Ind	ication			
Address	0.0.0.0:2	V Ba	ttery Discha	ge		
Parent expander's checkup	7.000	Supervi	sion			di
period	7 500	_ Do	not supervi	se wall tam	ber	b
Supervision period	3 min 💌	det	ector			Y
		Attenua	tion of outpu	ut signal po	wer	cł
Voice Reprodution		<u> </u>				C
Do not reproduce double	tone signal	9				Ŀ
before sounding		0	-3 dB	-6 dB	-9 dB	b
Reproduce signal from an "GO/CHS"	x input	Preamp	lification of s	ignal "GO/	CHS"	tr
		0-				m
		x1	x2	x4	x8	re b
						R
						P
ſ	Apply	Car	ncel			n
l	. 499					

# GVA200-ADV DSPEAKER indication for battery discharge events can be bled by unchecking the Battery Discharge check can disable the wall tamper spring sensor by king the Do not supervise wall tamper detector ck box. dspeaker's output signal is set to maximum power efault; you can attenuate it up to -9 dB by sliding Attenuation of output signal power cursor. alert double tone signal preceding the alarm voice sage can be disabled by checking the Do not oduce double-tone signal before sounding roduce signal from aux input "GO/CHS" and amplification of signal "GO/CHS" options are ised

Apply to confirm, Cancel to discard.

#### ADD THE EXPANDER DEVICES



Right click on the translator icon.

Select the Add expander device menu option.

The Add expander device window appears.

Select the device Quantity you require for the installa-



An expander property window appears.

If in the previous window you have selected a **Quantity** of expanders to add greater than one, you will notice that the **Address** field of this properties window indicates the wireless address of the first expander; despite of this, the properties you set here will be applied to ALL expanders you add to the wireless system.

Remember that you can visualize again this window for a single expander by right clicking on the required expander icon.

#### Parent expander's checkup period

This drop down list indicates how often this expander reports its status to the "father" translator or expander.

Wireless traffic strongly depend on this parameter; do not change it from its default setting if it is not really necessary.

#### Chid expander's supervision period

If the "father" translator or expander device does not receive a status report from this expander in this specified period of time, the "father" device signals a "no link" fault.

#### Main PS control

Uncheck this box to disable the main power supply supervision; if you disable this and if the power supply voltage falls under the specified minimum level, this expander will signal a fault.

#### Standby PS control

Uncheck this box to disable backup power supply supervision; if you disable this and if the power supply voltage falls under the specified minimum level, this expander will signal a fault.



The procedure for adding and managing the child devices that are assigned to an expander is identical to the one that is used for the translator module; the only difference is that it is applied to the specific expander icon and not to the translator icon.

# PROGRAM THE SYSTEM

File Options Tools Help

🛜 System

📑 System 🔳 Events 🖾 Status 🏹 Link quality

🙅 Collect | 🕨 Start 🔳 Stop | 🔟 Get history | 🏷 Clear | 🧟 Show topology



Device

Address

Туре

Programmed

Configuration is now complete, at least on the computer.

Now the configuration need to be programmed on the wireless system.

If you are deploying a brand new installation:

Right click on the translator icon.

Contextual pop-up menu appears.

Click the Restore 20-VW2W100-ADV to factory setting (clear) menu option.



If you execute Restore 20-VW2W100-ADV to factory setting (clear) and you have in the configured system child devices that have been already linked and programmed, you must successively relink and reprogram ALL child devices again.



Click Yes to continue; No to give up.

You will be asked for a confirmation of this operation.

Click Yes to continue; No to give up.



OUT 20-SGMCB200-ADV BAT 20-SGFI200-S-ADV

IN 20-SGMI200-ADV

20-SGVA200-ADV AXIS-RWSM + AXIS-CWS 20-SGR(B)S100-ADV WirelEx Fire

Do you really want to restore device?

Yes No

0

0

0

sales@advancedco.com

*lices* 0.01%

12

Devices quantity

Fire detectors: Input devices: Output devices: Input/output devi Network devices

Predicted traffic Not connected

😵 WirelEx Fire File Options Tools Help 📲 Collect | 🕨 Start 🔳 Stop | 🔟 Get history | 🏷 Clear | 🥥 Show topology 📧 System 📧 Events 🔝 Status 🍸 Link quality Device Address Type Programmed 🥱 System 20-SG 100-ADV 0.0.0.0:1 Optical Detector × Expanders 20-SG200-ADV AXIS-ROH \_\_\_\_ 20-SGWE-ADV #1 0.0.0.0.0.2 Multi-Citeria Detecto × 8 20-VW2W100-ADV × R setting device... waiting for power up WirelEx Fire × × Total Restore completed × OUT 20-SGMCB200-ADV BAT 20-SGFI200-S-ADV ОК × IN 20-SGMI200-ADV × Devices quantity 12 20-SGVA200-ADV 0.0.0.0.9 Loudspeake × Fire detectors: Input devices: Output devices: Input/output dev Network devices AXIS-RWSM + AXIS-CWS 0.0.0.0.0:10 Sounde × Predicted traffic 0.01% Not connected

WirelEx Fire File Options

Tools Help

When the **Restore 20-VW2W100-ADV** to factory setting (clear) operation has been completed, an information window pops-up.

Click OK.

Right click on the translator icon.

Contextual pop-up menu appears.

Click on the **Program 20-VW2W100-ADV** menu option.

The **Program** command can be applied to update a translator, to program or update an expander. Same procedure applies.

To program an expander right click on the expander icon and choose the **Program 20-SGWE100-ADV**.

A programming progress window pops-up.



Device Address Туре Programmed 3 System 20-SG 100-ADV AXIS-ROP 0.0.0.0.1 Optical Detector × Expanders 20-SG200-ADV AXIS-ROH \_\_\_\_ 20-SGWE-ADV #1 0.0.0.0.0.2 Multi-Orteria Detecto × \_\_\_\_X\_\_\_) 20-VW2W100-ADV × Programming central node x Current | × Total all Poin Cancel × OUT 20-SGMCB200-ADV BAT 20-SGFI200-S-ADV 0.0.0.0.07 Battery Output Module × IN 20-SGMI200-ADV 0.0.0.0.0.8 Input Module × Devices quantity 12 Fire detectors: Input devices: Output devices: Input/output devices Network device 20-SGVA200-ADV 3 0.0.0.0.9 Loudspeaker × AXIS-RWSM + AXIS-CWS 20-SGR/BIS100-ADV 0.0.0.0.010 Sounder × ices: Predicted traffic 0.01% Not connected



S WirelEx Fire			L	- 0 X				
File Options Tools Help								
💑 Collect   🕨 Start 🔳 Stop   🔯 Get history   🏷 Clear   🧟 Show topology								
🖷 System 🔳 Events 🛄 Status 🍸 Link qu	ualty							
System	Device	Address	Туре	Programmed (				
20-VW2W100-ADV	20-SGWE-ADV #1	1.0.0.0:0:0	Sagittarius Expander Module	×				
	20-SG100-ADV AXIS-ROP	0.0.0.0:1	Optical Detector	×				
20-SGWE-ADV #1	20-SG200-ADV AXIS-ROH	0.0.0.0.2	Multi-Criteria Detector	×				
	20-SG350-ADV AXIS-RHT	0.0.0.0:3	Thermal Detector	×				
	20-SGBE100-ADV	0.0.0.0.0:4	Beacon	×				
	20-SGCP100-ADV	0.0.0.0.0:5	Re-Settable Call Point	×				
	OUT 20-SGMC200-ADV	0.0.0.0:6	Output Module (Require external supply)	×				
	OUT 20-SGMCB200-ADV BAT 20-SGFI200-S-ADV	0.0.0.0.0:7	Battery Output Module	×				
Devices quantity: 12	IN 20-SGMI200-ADV	0.0.0.0:8	Input Module	×				
Fire detectors: 3	20-SGVA200-ADV	0.0.0.0.9	Loudspeaker	×				
Output devices: 5 Input/output devices: 0 Network devices: 2	AXIS-RWSM + AXIS-CWS 20-SGR(B)S100-ADV	0.0.0.0.0:10	Sounder	×				
Predicted traffic: 0.01%	< [			•				
Not connected	Not connected							

Programming completion pops-up a confirmation window.

OK to continue.

The translator's product code is now printed out in bold.

This means that it has been programmed.

Repeat the restore to factory settings - programming procedure for ALL expanders.

Every time you program the translator, a "LOEr" indication is visualized on the device's digital display. LOEr means: you have programmed the wireless configuration on the translator, now you must load the devices' references onto the loop analogue interface.

"LOEr" handling is explained later in the "The load procedure" paragraph.

It does not apply to the **20-SGCWE-ADV** central node.

# PROGRAM THE CHILD DEVICES

File Options Tools Help			2	
🕀 Collect   🕨 Start 🔳 Stop   🔯 Get his	tory   🍆 Clear   🔕 Show to	pology		
📰 System 📧 Events 🔝 Status 🍸 Link qu	aity			
Svetem	Device	Address	Туре	Programmed
20.VW2W100_ADV	- 20-SGWE-ADV #1	1.0.0.0.0:0	Sagittarius Expander Module	×
((e)) Emanders	20-SG100-ADV AXIS-ROP	0 0 0 0 0 1	SCIRO, ADV / AVE, BOD	¥
	20-SG200-ADV AXIS-ROH	Delete 20-SG	100-ADV / AXIS-ROP from the system	-
-	20-SG350-ADV AXIS-RHT	Properties Comment		5
	20-SGBE100-ADV	0.0.0.0:4	Beacon	×
	20-SGCP100-ADV	0.0.0.0.0:5	Re-Settable Call Point	×
	OUT 20-SGMC200-ADV	0.0.0.0:6	Output Module (Require external supply)	×
	OUT 20-SGMCB200-ADV BAT 20-SGFI200-S-ADV	0.0.0.0:7	Battery Output Module	×
Devices months 12	IN 20-SGMI200-ADV	0.0.0.0.0:8	Input Module	×
Fire detectors: 3	20-SGVA200-ADV	0.0.0.0:9	Loudspeaker	×
Puput devices: 2 Output devices: 5 Input/output devices: 0 Network devices: 2	AXIS-RWSM + AXIS-CW 20-SGR(B)S100-ADV	<sup>5</sup> 0.0.0.0:10	Sounder	×
Predicted traffic: 0.01%	•		117	,

Connect your computer to the "father" translator or expander of the child device you want to link - program.

On the **System** tab page, click on the relevant translator or expander icon.

Right click over the relevant child device icon.

Contextual menu pops up.

Click on the Program [device code] command.



- 0 💎 WirelEx Fire File Options Tools Help 🚽 Collect | 🕨 Start 🔳 Stop | 🔟 Get history | 🍗 Clear | 🧟 Show topology 🗃 System 🔳 Events 🛄 Status 🍸 Link quality Туре 🥱 System 20-SGWE-ADV #1 × 100000 Sapittarius Expander Module D Expanden 20-SG200-ADV AXIS-ROH 0.0.0.0.0.2 Multi-Criteria Detecto × 20-SGWE-ADV #1 20-VI WirelEx Fire × × Cun Device correctly programmed Call Point × ule (Require external supply) × OK utput Module × IN 20-SGMI200-ADV 0.0.0.0.08 Input Module × Devices quantity 12 20-SGVA200-ADV 0.0.0.0.09 Loudspeaker × Fire detectors Input devices: Output devices Input/output de AXIS-RWSM + AXIS-CWS 20-SGR(B)S100-ADV 0.0.0.0.010 Sounder × 0.01% Predicted traffic Not connected

A window will pop up, indicating that the translator or expander is looking for the device to be linked.

Make sure that the programming switch of the child device is switched to "**ON**".

Insert the secondary, then the primary battery into the child device.

The child device's LED flashes red; this indicates that the device is starting up.

When flashing comes to an end, place the child device near the translator or expander and set the programming switch to "1".

Child device's linking and programming starts.

Child device's LED flashes green: linking - programming is complete.

On  $\bar{\textbf{W}}\text{irelEx},$  a window pops up informing you that the device is correctly programmed.

Click OK.

Repeat this procedure for all the other child devices.

The programming status of the child device is shown in the Programmed column:



- = Chid device linked (programmed)
- = Child device not linked (not programmed)

The wireless system is completely programmed only when:

- all child devices indicate the green programmed check in the Programmed column
- all translator and expander's product names are written in bold.

The wireless system is not completely programmed when:

- at least a child device indicates a red non programmed X in the Programmed column
- at least one product name of a translator or expander is not written out in bold.



A warning window appears if WirelEx is closed with one or more not programmed devices.

After you have performed any change to the wireless system configuration:

- check the wireless configuration again
- check control panel's configuration.



If you fail to program completely the wireless system:

- the system will not work correctly
- panel could be unable to show faults.

#### THE TRANSLATOR TABLE

The child devices configured in a wireless system are organized in a sequential list.

This list is the translator table. It is stored in the translator and updated when the translator is programmed.

In WirelEx you can visualize it in the Translator table window:

	×	- 0			table	ranslator		
	Co 🔺		Туре	Device	Expander	Position		
	=		20-VW2W100-ADV	0		1		
in the System			20-SG100-ADV / AXIS-ROP	1	0	2		
Contextual m			20-SG200-ADV / AXIS-ROH	2	0	3		
			20-SG200-ADV / AXIS-ROH	3	0	4		
Select the Ira			20-SG100-ADV / AXIS-ROP	1	1	5		
Translator ta			20-SG200-ADV / AXIS-ROH	2	1	6		
			20-SG350-ADV / AXIS-RHT	3	1	7		
	-		20-SGCP100-ADV	4	1	8		

tab page, right click on the System icon.

enu pops up.

nslator table option.

ble window appears.

The translator table has 33 lines; each line is indexed in the Position column from 1 to 33.

The translator is always placed at Position 1.

Child devices have the **Position** indexed from 2 to 33.

Wireless expanders modules are never indicated in the list.

The translator's front board keypad-display List function uses the Position index to locate the translator and the child devices; check the 20-VW2W100-ADV manual for better details.

When you perform the load procedure (see The load procedure paragraph), starting from the translator table a set of virtual analogue loop addresses are generated and stored in the wired analogue loop interface; this address table is then used in the communication process with the wired control panel.

The translator and child device's sequence in the translator table corresponds exactly to the translator and child device's sequence of analoque addresses in the loop interface.

To make things clearer, suppose you have, for example:

Translator table

Translator	Position: 1
Device #1	Position: 2
Device #2	Position: 3
Device #3	Position: 4

Translator analogue (start) loop address: 10

Analogue loop address table

Translator	Analogue address:	10 + (1 - 1) = <b>10</b>
Device #1	Analogue address:	10 + (2 - 1) = 11
Device #2	Analogue address:	10 + (3 - 1) = 12
Device #3	Analogue address:	10 + (4 - 1) = <b>13</b>

The translator table is viewed in WirelEx with the following data columns:

#### Position

The position in the translator table. Values span from 1 to 33.

#### Expander

The translator or expander number to which the child device is linked to. 0 is for the translator, expanders values span from 1 to 7.

#### Device

Device number. It is translator or expander's specific. Values range from 1 to 32.

#### Type

Indicates the translator's or child device's product code.

#### Comment

The note that you eventually assigned to the child device.

# THE TRANSLATOR TABLE - A PRACTICAL EXAMPLE

This is an example of a wireless system configuration - translator table correspondence:

				And and a second second	_				0 0	2	1
· -	WirelEx Fire	Tools Help	30. 1	A	-	Time Themes	Tank		a 2	<u> </u>	
1	Collect	Start Stop	Get history	Clear 🐼 Show topolog	y						
	System 📧 Ev	rents 🔝 Status [	E Link quality							_	
	System			Device	Address	Santtarius Expander Mod	le.	Programmed	Comme	Â.	
	B 20-V	W2W100-ADV		20-SG100-ADV	000001	Ontional Dataseter					
	⊕ <b>(((*))</b>	Expanders		AXIS-ROP 20-SG200-ADV	0.0.0.0.0.1	Optical Detector		4	_		
		20-SGWE	ADV #1	AXIS-ROH	0.0.0.0.0.2	Multi-Critena Detector		*	_		
				AXIS-ROH	0.0.0.0.0:3	Multi-Criteria Detector		~	_	Е	
	Devices quantity:	18									Wireless devices linked to the translator
L	Fire detectors: Input devices:	6									
Ľ	Output devices: Input/output devices Network devices:	7 0 2									
	Predicted traffic:	0.03%								-	
N	lot connected										
										_	
I	ranslator	table					_ (		Ж		
	Position	Expander	Device	e		Туре		(	Co 🔺		
	1	0	0	20-VW2W100-A	DV					11	
l	2	0	1	20-SG100-ADV	AXIS	ROP			-		
l	3	0	2	20-SG200-ADV	AXIS	ROH					
	4	0	3	20-SG200-ADV	AXIS	ROH					The Translator table window.
I	5	1	1	20-SG100-ADV	AXIS	ROP					
l	6	1	2	20-SG200-ADV	AXIS	ROH					
	7	1	3	20-SG350-ADV	AXIS	RHT					
	8	1	4	20-SGCP100-AD	V				-		
	•								•		
Ľ										-	
					, A.					_	1
	File Options	Tools Help						(2)			
1	🛃 Collect 📘 🕨	Start 🔳 Stop	Get history	🏷 Clear   🌏 Show topolog	У						
1	🖷 System 🔳 Ev	rents 🔝 Status [	link quality	Device	Address	Type		Programmed	Comme	and 1	
	System			20-SG100-ADV AXIS-BOP	1.0.0.0.0:1	Optical Detector		4			
	B <u>-</u> 20-V	W2W100-ADV		20-SG200-ADV	1.0.0.0.0.2	Multi-Criteria Detector		4			
	E(((e))	20.SOWE	ADV/#1	20-SG350-ADV	1.0.0.0.3	Thermal Detector		4			
				20-SGCP100-ADV	1.0.0.0.0:4	Re-Settable Call Point		4			
										d	Wireless devices linked to the expander
ſ	Devices quantity:	18									
	nne detectors: Input devices: Output devices:	3 7									
	Input/output devices Network devices:	2									
	Predicted traffic:	0.03%		<						Ъ	
N	lot connected										

# THE TRANSLATOR TABLE - HANDLING GAPS

When you delete one or more devices, empty lines, or gaps, remain in the translator table's list.

You can handle those gaps in two ways:

- add other wireless child devices; empty gaps will be filled up again by the newly added devices; this solution is not always applicable.

- use the Clear table and Fill the table automatically commands.

Position 1 2 3	on Even							
1 2 3	Un Expan	der De	vice		Туре			Comment
2 3	0		0	20-VW2W100-ADV				
3	0		1	20-SG100-ADV / AX	KIS-ROP			
1 ·····	0		2	20-SG200-ADV / AX	KIS-ROH			
4	0		3	20-SG200-ADV / AX	KIS-ROH			
5	0		4	20-SG100-ADV / AX	KIS-ROP			
6	0		5	20-SG200-ADV / AX	KIS-ROH			
7	0		6	20-SG350-ADV / AX	KIS-RHT			
, ,	0		- 7	20-SGCP100-ADV				
9			•	200001007007				
10	0		0					
11	0		J 10	20-5GM(200ADV				
12	0			20-5GMC200-ADV	( / 20.000	12		
12	0		11	20-SGMCB200-ADV	/ 20-5GFI	12	00-5-ADV	UU-S-ADV
13	0		2	20-SGMCB200-ADV	/ / 20-SGFI	2	200-S-ADV	200-S-ADV
I ranslator	r table			-		_		
Position	0	0 20-	VW2W	100-ADV		U	omment	omment
2	0	1 20-	SG100-	ADV / AXIS-ROP				
3	0	2 20-	SG200	ADV / AXIS-ROH				
4	0	3 20	SG200- SG100-	ADV / AXIS-ROH				
6	0	5 20	SG200	ADV / AXIS-ROH				
7	0	6 20	SG350-	ADV / AXIS-RHT				
8	0	Fill th	e table	automatically				
9	0			-				
10	0	Clear	table	WEATIN				
10 11	0	Clear 9 20 10 20	table SGMIZI SGMC2	00-ADV				
10 11 12	0	Clear 9 20 10 20 11 20	table SGMIZI SGMC2 SGMCE	10-ADV 00-ADV 1200-ADV / 20-SGFI200-S-A	ADV			
10 11 12 13	0	S         20           10         20           11         20           12         20	table SGMC2 SGMC2 SGMCE SGMCE	00-ADV 00-ADV 1200-ADV / 20-SGF1200-S-A 1200-ADV / 20-SGF1200-S-A	ADV ADV			
10 11 12 13 14	0	9         20           10         20-           11         20-           12         20-           13         20-	table SGMI2 SGMC2 SGMCE SGMCE SGVA1	00-ADV 1200-ADV / 20-SGFI200-S-A 1200-ADV / 20-SGFI200-S-A 1200-ADV / 20-SGFI200-S-A 100-ADV	ADV ADV			
10 11 12 13 14 15		Clear           9         20           10         20           11         20           12         20           13         20           14         AX	table SGMC2 SGMC2 SGMCE SGMCE SGVA1 IS-RWS	00-ADV 00-ADV 1200-ADV / 20-SGFI200-S-A 1200-ADV / 20-SGFI200-S-A 00-ADV M + AXIS-CWS / 20-SGR(E	ADV ADV B)S100-ADV			
10 11 12 13 14 15 40		Clear           9         20           10         20           11         20           12         20           13         20           14         AX	table SGMIZI SGMC2 SGMCE SGMCE SGVA1 IS-RWS	00-ADV 200-ADV / 20-SGF1200-S-A 200-ADV / 20-SGF1200-S-A 200-ADV / 20-SGF1200-S-A 200-ADV ////////////////////////////////////	ADV ADV B)S100-ADV			
10 11 12 13 14 15 10 Transla	0 0 0 0 0 0 0	Clear           9         20           10         20           11         20           12         20           13         20           14         AX	table SGMI2I SGMC2 SGMCE SGMCE SGVA1 IS-RWS	00-ADV 00-ADV / 20-SGFI200-S-A 1200-ADV / 20-SGFI200-S-A 1200-ADV / 20-SGFI200-S-A 00-ADV M + AXIS CWS / 20-SGR(E 00-ADV	ADV ADV B)S100-ADV		2	
10 11 12 13 14 15 Transla	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Clear 9 20- 10 20- 11 20- 12 20- 13 20- 14 AX 17 20- 14 AX	table SGMI2I SGMC2 SGMCE SGVA1 IS-RWS	00-ADV 00-ADV / 20-SGFI200-S-A 1200-ADV / 20-SGFI200-S-A 1200-ADV / 20-SGFI200-S-A 00-ADV M + AXIS-CWS / 20-SGR(E 00-ADV Type	ADV ADV B)S100-ADV		rt	t E
10 11 12 13 14 15 	on Expanse	Clear 9 20 10 20 11 20 12 20 13 20 14 AX 15 20 der De	table SGMC2 SGMC2 SGMCE SGVA1 IS-RWS CODE1	2004DV 005ADV 1200-ADV / 20-SGFI200-S-A 1200-ADV / 20-SGFI200-S-A 1200-ADV / 20-SGFI200-S-A 1200-ADV 14 + AXIS -CWS / 20-SGR[E 120-ADV 1200-ADV 1200-ADV 1200-ADV	ADV ADV B)S100-ADV		t	t
10 11 12 13 14 15 Transla Positio 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Clear 9 20 10 20 11 20 12 20 13 20 14 AX 17 20 der De	table SGMC2 SGM2 SGM2 SGM2 SGM2 SGM2 SGM2 SGM2 SGM	20-ADV 200-ADV / 20-SGFI200-S-A 2200-ADV / 20-SGFI200-S-A 200-ADV M + AXIS CWS / 20-SGR(E 20-ADV Type 20-VW2W100-ADV	ADV ADV B)S100-ADV	T		
10 11 12 13 14 15 5 5 7 7 7 7 8 8 7 7 8 7 8 7 8 7 8 7 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Clear 3 20 10 20 11 20 12 20 13 20 14 AX 15 20 der De	table SGMI2I SGMC2 SGMCE SGMC	00-ADV 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 20-ADV IM + AXIS-CWS / 20-SGR[E 20-ADV Type 20-VW/2W 100-ADV	ADV ADV B)S100-ADV	h		
10 11 12 13 14 15 5 5 7 Transla 7 Positic 1 2 3 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Clear 9 20 10 20 11 20 12 20 13 20 14 AX 15 20 der De	table SGMIZI SGMC2 SGMCE SGMCE SGVA1 IS-RWS CODE1	20040V 00-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 00-ADV /// + AXIS-CWS / 20-SGRIE 20-ADV Type 20-VW2W 100-ADV	ADV ADV B)S100-ADV	nt	2	
10 11 12 13 14 15 <b>Transla</b> <b>Position</b> 1 2 3 4 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Clear 9 20 10 20- 11 20- 12 20- 13 20- 14 AX 5 20- 14 AX 5 20- 14 AX	table SGMT2I SGMC2 SGMCE SGMC	2040V 00-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 00-ADV /// + XXIS-CWS / 20-SGR(E 20-ADV Type 20-YW2W100-ADV	ADV ADV B)S100-ADV	nt	2000	
10 11 12 13 14 15 12 14 15 12 1 Position 1 2 3 4 5 0	tor table	Clear 9 20 10 20 11 20 12 20 13 20 14 AX 55 20 14 AX 55 20 14 AX 15 20 14 AX 15 20 14 AX 15 20 15 20 10 20 10 10 20 10 20 10 20 10 20	table SGMT21 SGMC2 SGMC	2040/ 2004DV / 20-SGFI200-S-A 2004DV / 20-SGFI200-S-A 2004DV / 20-SGFI200-S-A 2004DV / 20-SGFI200-S-A 20-AVV Type 20-VW2W100-ADV	ADV ADV B)S100-ADV	nt	2700	
10 11 12 13 14 15 5 7 7 7 7 7 7 7 7 7 7 7 7 7	tor table	Clear 9 20 10 20 11 20 12 20 13 20 14 AX 15 20 14 AX 15 20 14 AX	table SGMIZI SGMC2 SGMC2 SGMC5 SGMC	20-AUV 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 00-ADV M + XXIS-CWS / 20-SGR[E 20-XWZ V100-ADV 20-VWZ V100-ADV	ADV ADV B)S100-ADV	nt		
10 11 12 13 14 15 5 7 7 ransla 1 2 3 4 5 6 6 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Clear 3 200 10 20- 11 20- 12 20- 13 20- 14 AX 55 - 00- 14 AX 55 - 14 AX 55 - 15 -	table SGM/ZZ SGMC2 SGMC2 SGMC2 SGVA1 S-RWS SGVA1 S-RWS SGVA1 S-RWS ODEE	20-AUV 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 00-ADV M + XXIS-CWS / 20-SGRIE PR + ANX Type 20-VW2W100-ADV	ADV ADV B)S100-ADV	nt	2 >== 1	
10 11 12 13 14 15 <b>Transla</b> <b>Transla</b> <b>2</b> 3 4 5 6 7 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Clear 200 3 200 10 20 11 20 12 20 13 20 13 20 14 AX AX AX AX AX AX AX AX AX AX AX AX AX A	table SGMIZI SGMC2 SGMC2 SGMCE SGVA1 IS-RWS CODE1	20-AUV 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 200-ADV IIII + XXIS-CWS / 20-SGRIE 20-ADV Type 20-VW2W 100-ADV	ADV ADV E)S100-ADV	nt	2 100	
10 11 12 13 14 15 <b>Transla</b> <b>Positivi</b> 2 3 4 5 6 6 7 7 8 9	o o o o o o o o o o o o o o o o o o o	Clear 10 20 10 20 11 20 12 20 13 20 14 AX AX AX AX AX AX AX AX AX AX AX AX AX A	table SGMIZI SGMC2 SGMC2 SGMC2 SGMC2 SGVA1 S-RWS SG0224 SGVA1 S-RWS SG0224 SGVA1 S-RWS SG0224 SGVA1 S-RWS SGVA1 S-RWS SGMC2 SG	20-AUV 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGRIE 20-VW2W1D0-ADV Type 20-VW2W1D0-ADV	ADV ADV E)S100-ADV	nt	2 100	
10 11 12 13 14 15 2 2 3 4 5 6 7 8 9 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Clear 10 200 10 20 11 20 20 11 20 20 11 20 20 11 20 20 10 12 20 10 12 20 10 12 20 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10	table SGMZI SGMCE SGMCE SGMCE SGVA1 IS-RWS CODE1	20-ADV 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGRIE 20-ADV Type 20-VW2W 100-ADV	ADV ADV B)S100-ADV	nt	2 200	
10 11 12 13 14 15 	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Clear 2 20 10 20 11 20 12 20 13 20 14 AX 14 AX 14 AX 14 AX 14 AX 14 AX 15 20 14 AX 15 20 14 AX 15 20 16 20 17 20 18 2	table SGMIZI SGMCE SGMCE SGMCE SGVA1 IS-RWS SGVA1	20-ADV 200-ADV / 20-SGFI200-S-A 200-ADV / 20-SGFI200-S-A 200-ADV M + AXIS-CWS / 20-SGRIE 20-ADV Type 20-VW2W 100-ADV	ADV ADV B)S100-ADV	nt		
10 11 12 13 14 15 5 7 7 8 9 10 11 12 3 4 5 6 7 8 9 10 11 12 13 14 15 14 15 14 15 14 15 16 17 18 18 18 18 18 18 18 18 18 18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Clear 20 20 20 20 20 20 20 20 20 20 20 20 20	table SGM/22 SGM/22 SGM/22 SGM/21 SGM/21 SGM/21 SGM/21 SGM/21 SGM/21 SGM/21 SGM/21 SGM/21 SGM/21 SGM/21 SGM/21 SGM/22 SGM	200-00V 200-00V / 20-SGFI200-S-A 200-00V / 20-SGFI200-S-A 00-ADV IM + XXIS-CWS / 20-SGRIE 20-XWZW 100-ADV 20-XWZW 100-ADV	ADV ADV B)S100-ADV	nt	2 200 1	

1	<b>Franslator</b>	table				×
	Position	Expander	Device	Туре	Comment	*
	1	0	0	20-VW2W100-ADV		
	2	0	1	20-SG100-ADV / AXIS-ROP		
	3	0	2	20-SG200-ADV / AXIS-ROH		Ξ
	4	0	3	20-SG200-ADV / AXIS-ROH		
	5	0	4	20-SG100-ADV / AXIS-ROP		
	6	0	5	20-SG200-ADV / AXIS-ROH		
	7	0	6	20-SG350-ADV / AXIS-RHT		
	8	0	7	20-SGCP100-ADV		
	9	0	9	20-SGMI200-ADV		
	10	0	10	20-SGMC200-ADV		
	11	0	11	20-SGMCB200-ADV / 20-SGFI200-S-ADV		
	12	0	12	20-SGMCB200-ADV / 20-SGFI200-S-ADV		
	•			III.	•	

Right click on the table's window.

A contextual menu pops up.

Click Fill the table automatically.

The translator table will not have gaps anymore.

# UPDATING THE CHILD DEVICES

For the child devices that you have already linked and programmed to the wireless system, you can, if needed, update some, but not all, settings. The recommendation is that set in the correct parameters in the first place, before actually linking and programming the child devices; nevertheless, in certain circumstances, it could be necessary to perform an update.

List of parameters that can be updated without linking and programming again a child device:

	Parent expander's check-up period
All child devices	Supervision period
Optical detectors	Sensitivity
Multi-criteria detectors	Sensitivity
Manual call points	Do not supervise Tamper
Input modules	Do not supervise tamper circuit
Battery output modules	Relay Type
Sounders	Do not supervise tamper circuit



Right click on the child device's icon.

Contextual menu pops up.

Click the Properties option.

Modify the required parameter.

Apply to confirm, Cancel to discard the change.

File Options Too	ls Help						
🖑 Collect   🕨 Start	: 📕 Stop 🛛 🔟 Get history	🏷 Clear   🐼 :	Show topolog	1			
System 👔 Events	🚨 Status 🍸 Link quality						
Svstem		De	vice	Address	Туре	Programmed	Commi +
20-VW2V	100-ADV	20-SGWE-AI	DV #1	1.0.0.0.0:0	Sagittarius Expander Module	4	
the first Fr	andare	20-SG100-AI	DV	0.0.0.0.1	Optical Detector		
		20-562	Update 20-S	G100-ADV	/ AXIS-ROP parameters		
	_ 20-SGWE-ADV #1	AXIS-R	Program 20-	-SG100-AD\	/ / AXIS-ROP	~	
-		20-SG2 AXIS-R	20-SG2 Delete 20-SG100-ADV / AXIS-ROP from the system AXIS-R Supervise 20-SG100-ADV / AXIS-ROP				
		20-SG1 AXIS-RI Move 20-SG100-ADV / AXIS-ROP to				4	
		20-SG2 AXIS-RI Comment				4	
		20-SG3		0.0.0.0.0.6	Thermal Detector	4	
		20-SGCP100	HADV	0.0.0.0.0:7	Re-Settable Call Point	4	
Devices quantity: 0		//SGWCP10	10	8:0.0.0.0	//Re-Settable Weatherproof Call Point	1	
Fire detectors: 0 nput devices: 0		IN 20-SGMI200	ADV	0.0.0.0.9	Input Module	~	
Dutput devices: 0 Input/output devices: 0 Network devices: 0		OUT 20-SGMC200	D-ADV	0.0.0.0.0:10	Output Module (Require external supply)	4	
Predicted traffic: 0	redicted traffic: 0.03%		00-ADV S-ADV	0.0.0.0.0:11	Battery Output Module	4	÷
		•					+
ot connected							
						_	

If the modified parameter is updatable, the visualized icon in the **Programmed** column for the

specific child device will be:

Right click on the child device's icon.

Contextual menu pops up.

Click the Update [device code] parameters option.



ſ	20-VW2W100-ADV	x	
	Updating device's parameters		
	Current		Parameter update can take up some minutes
	Total		
	Can	cel	
7		7	1
	WirelEx Fire		
	Device's parameters update completed	Update co	ompletion pops-up a confirmation window. ntinue.
	ОК		

# ADDITIONAL FUNCTIONS OF THE SYSTEM CONFIGURATION TAB PAGE

The pop up menu, that results from the right click on the wireless devices icons, gives you some additional options:

#### COMMENTS



You can assign a comment text to each wireless device, like its location in the installation site.

Right click on the device's icon.

Contextual menu pops up.

Select Comment.

Comment window pops up.

You can enter up to 31 alphanumeric characters.

Apply to confirm, Cancel to discard the change.

#### DEVICE SUPERVISION

1 WirelEx Fire						• ×
File Options Tools Help						
🗄 🙅 Collect   🕨 Start 🔳 Stop   🔯 Get history	y   🏷 Clear   🐼 Show topo	logy				
📲 System 🔳 Events 🛄 Status 🍸 Link quality	0					
System	Device	Address	Туре		Programmed	*
20-VW2W100-AD	20-SGWE-ADV #1	1.0.0.0:0	Sagittarius Expander Mod	ule	-	
	20-SG 100-ADV AXIS-ROP	0.0.0.0:1	Optical Detector		4	
20-SGWE-ADV #1	20-SG200-ADV AXIS-ROH	0.0.0.0.0.2	Multi-Criteria Detector		4	
	Program 20-SG200-	ADV / AXIS-RO	н			Muti-cri
	Delete 20-SG200-AD	V / AXIS-ROH	from the system	Pegenned Ve I I I I I I I I I I I I I I I I I I I	1	
	Supervise 20-SG200	ADV / AXIS-RO	н но	Activate	Programmed Program Programmed Programmed Programmed Programmed Programme	
	Move 20-SG200-AD	V / AXIS-ROH 1	to +	Activate	e red Led	
	Properties			Deactiv	ate Leds	_
	Comment					
	20-SGCP 100-ADV	0.0.0.0.0:7	Re-Settable Call Point		1	
Devices quantity: 0	//SGWCP100	0.0.0.0:8	//Re-Settable Weatherpro	of Call Point	4	
Fire detectors: 0	IN 20-SGMI200-ADV	0.0.0.0.9	Input Module		4	
Output devices: 0 Input/output devices: 0	OUT 20-SGMC200-ADV	0.0.0.0.0:10	Output Module (Require e	xternal supply)	4	
Predicted traffic: 0.03%	OUT 20-SGMCB200-ADV RAT 20-SGFI200-S-ADV	0.0.0.0.0:11	Battery Output Module		4	-
Not connected						

You can switch on or off the LED indicators of the child devices.

Right click on the child device's icon.

Contextual menu pops up.

Select Supervise [device's product code].

Select Activate green Led, Activate red Led or Deactivate Leds.



On AXIS-ROP, AXIS-ROH and AXIS-RHT the Activate green Led option activates the test mode, while the Deactivate Leds option deactivates it.

Check these detectors manuals for more data about it.

Remember to deactivate all detector's LEDs after you have carried out all the device's alarm testing.

#### DELETE DEVICE

🐐 WirelEx Fire	AND ADDRESS	August and	Autor C Aut Liber		×		
File Options Tools Help							
Start Stop Start Stop Start Stop	y   🍗 Clear   🌚 Show top 	ology					
	Device	Address	Туре	Programmed	-		
20-VW2W100-AD	20-SGWE-ADV #1	1.0.0.0.0:0	Sagittarius Expander Module	4			
	20-SG 100-ADV AXIS-ROP	0.0.0.0:1	Optical Detector	4			
20-SGWE-ADV #1	20-SG200-ADV AXIS-ROH	0.0.0.0.0:2	Multi-Criteria Detector	4			
-	20-SG200-ADV AXIS-ROH	0.0 Program 20-SG200-ADV / AXIS-ROH					
	20-SG 100-ADV AXIS-ROP	0.0 Delete 20-SG200-ADV / AXIS-ROH from the system					
	20-SG200-ADV AXIS-ROH	0.0	Move 20-SG200-ADV / AXIS-ROH  Move 20-SG200-ADV / AXIS-ROH to				
	20-SG350-ADV AXIS-RHT	0.0 F	Properties		1		
	20-SGCP100-ADV	0.0.0.0.0.7	Comment ne-settable call Point	4	-1		
Deview evention 0	//SGWCP100	0.0.0.0:8	//Re-Settable Weatherproof Call Point	4			
Fire detectors: 0	IN 20-SGMI200-ADV	0.0.0.0:9	Input Module	4			
Output devices: 0 Input/output devices: 0	OUT 20-SGMC200-ADV	0.0.0.0.0:10	Output Module (Require external supply)	4			
Predicted traffic: 0.03%	OUT 20-SGMCB200-ADV RAT 20-SGFI200-S-ADV	0.0.0.0.11	Battery Output Module	4			
Not connected	•				۶		

You can delete a wireless device from the configuration.

Right click on the device's icon.

Contextual menu pops up.

Click on the Delete [device's product code].

If you delete a child device from an expander, you must program the expander AND the translator.

If you delete a child device from the translator, just program the translator.

#### MOVE DEVICE



You can move a child device:

- from the translator to an expander
- from an expander to the translator
- from an expander to another expander.

Right click on the child device's icon.

# Click Move [child device's product code].

Click on the destination translator or expander product code.

The translator and / or expanders involved in this operation must be programmed.

# SAVING, OPENING AND COLLECTING A SYSTEM

# SAVE SYSTEM

💎 Wir	elEx Fire		-	Author -	And in case		ANDER C. And Autors		×
File	Options Tools	Help							
	New system		Get history	/ 🏷 Clear 🛛 🎑	Show topology				
	Save system		🝸 Link quality						
2	Save system as			C	evice	Address	Туре	Programmed	^
PB-	Open system			- 20-SGWE-	VDV #1 1.	0.0.0.0:0	Sagittarius Expander Module	4	
	Open last system			20-SG100- AXIS-ROP	VDV 0.	0.0.0.1	Optical Detector	4	
	Export system as	•	E-ADV #1	20-SG200- AXIS-ROH	VDV 0.	0.0.0.0:2	Multi-Criteria Detector	4	
	Export events as	•		20-SG200- AXIS-ROH			Multi-Criteria Detector		Multi-
<u>.</u>	Quit		]	20-SG 100- AXIS-ROP	ADV 0.	0.0.0.0:4	Optical Detector	4	
				20-SG200- AXIS-ROH	VDV 0.	0.0.0.0:5	Multi-Criteria Detector	4	
				20-SG350- AXIS-RHT	VDV 0.	0.0.0.0:6	Thermal Detector	4	
				20-SGCP 10	0-ADV 0.	0.0.0.0:7	Re-Settable Call Point	4	
Devic	es quantity: 0			//SGWCP	00 0.	0.0.0.0:8	//Re-Settable Weatherproof Call Point	4	
Fire de	etectors: 0 devices: 0			IN 20-SGMI20	0-ADV 0.	0.0.0.9	Input Module	4	
Output Input/	t devices: 0 foutput devices: 0			OUT 20-SGMC2	0.0 VDA-0.0	0.0.0.0:10	Output Module (Require external supply)	4	
Predic	ted traffic: 0.03	x		OUT 20-SGMCB 20-SGFI20	200-ADV 0.0	0.0.0.0:11	Battery Output Module	4	-
Not co	nnected								

When you complete configuring and programming a wireless system, it is recommended that you save its **WirelEx** model on file.

To do so, click File on the main menu.

File menu options drop down.

Select either Save system or Save system as...

#### **OPEN SYSTEM**

💎 Wir	elEx Fire						- 0 - X
File	Options Tools Help						
	New system	Get history	🏷 Clear	Show topolo	3V		
	Save system	🝸 Link quality					
2	Save system as			Device	Address	Туре	Programmed
	Open system						
	Open last system						
	Export system as >						
	Export events as >						
	Quit						
Device Fire de Input o Output	es quantity: 0 dectors: 0 devices: 0 devices: 0						
Netwo	output devices: 0 rk devices: 0						
Predic	ted traffic: 0.00%		< [		111		•
Not co	nnected						.:

You can load into **WirelEx** the wireless system's configuration model.

Click File on the main menu.

File menu options drop down.

Select Open system...

#### **COLLECT ALL SYSTEM PROPERTIES**

S WirelEx Fire	Autor	Autor Lan	CE MINEL M	BOC 1. And in	- • ×
File Options Tools Hel	p				
🗄 🙅 Collect   🕨 Start 🔳 Sto	op 🛛 🔟 Get history	🏷 Clear   🥥 Sho	w topology		
📲 System 📧 Events 🔝 Sta	itus 🝸 Link quality				
New system	]	Device	Address	Туре	Programmed
Add central node	•				
Collect all system	n properties				
Properties Translator table					
Devices quantity: 0					
Fire detectors: 0 Input devices: 0 Output devices: 0 Input/output devices: 0 Network devices: 0					
Predicted traffic: 0.00%		•			•
Not connected					

# You can load the wireless system's configuration model onto the **WirelEx** directly from the translator module.

You computer must be connected to the translator via the RS232 serial cable.

Right click on the System icon.

Contextual menu pops up.

#### Click Collect all system properties.

If there are expanders in your system, this operation can last up to several minutes.

You can click the **Collect** icon on the **WirelEx**'s tool bar to launch directly this function.

# READ THE TRANSLATOR'S OR EXPANDER'S PROPERTIES

File Options Tools H	lelp				
🙅 Collect   🕨 Start 🔳	Stop 🛛 💽 Get his	story   🏷 Clear   🧟 Show	r topology		
🖷 System 💷 Events 🔼 :	Status 🝸 Link qu	alty			
奈 System		Device	Address	Туре	Programme
	ADV	20-SGWE-ADV #1			
	Add expander of	device		Orthopi Detection	
i(((ه)) Expan	Add child devie	ce .		Optical Detector	
	Read 20-VW2W	100-ADV properties		Multi-Criteria Detector	1
-	Program 20-VV	V2W100-ADV		Multi-Criteria Detector	1
	Reset 20-VW2V	V100-ADV			
	Restore 20-VW.	2W100-ADV to factory setting	gs (clear)	Optical Detector	4
	Delete 20-VW2	W100-ADV from the system		Multi-Criteria Detector	4
	Properties				
	Comment	~1~		Thermal Detector	4
		20-SGCP100-ADV	0.0.0.0:7	Re-Settable Call Point	4
	- F	//SGWCP100	0.0.0.0:8	//Re-Settable Weatherproof Call Point	4
Vevices quantity: U Fire detectors: 0		IN 20-SGMI200-ADV	0.0.0.0.9	Input Module	4
nput devices: 0 Autput devices: 0 nput/output devices: 0		OUT 20-SGMC200-ADV	0.0.0.0.0:10	Output Module (Require external supply)	4
Vetwork devices: 0 Predicted traffic: 0.00%		OUT 20-SGMCB200-ADV RAT 20-SGFI200-S-ADV	0.0.0.0.0:11	Battery Output Module	4
		< [	m		

Similarly to the collect function, you can load either from a translator or an expander its specific programming parameters and configuration model (this means ALL data, linked child devices types included).

You computer must be connected to the translator or expander, from which you want to collect its configuration model, via the RS232 serial cable.

Right click on the translator's or expander's icon.

A contextual menu pops up.

Click Read [Translator / Expander code] properties.

# MONITOR THE EVENTS OF THE WIRELESS SYSTEM

# HOW TO MONITOR AND EXPORT THE EVENTS

You can perform the monitoring of the events of the wireless system only if all configuration, linking and programming is completed.

WirelEx Fire v6.2.2.ADV B14					
File Options Tools Help					
🚽 Collect   🕨 Start 📕 Stop	🛛 🔟 Get history 🛛 🏷 🕻	lear 🔕 Show topology			
📑 System 🚺 Events 🔝 Statu	ıs 🝸 Link quality				Connect the computer to the central node (20-
Device	Address Event 0.0.0.0.0 Translator powere	Time d on 1/1/2018 12:01:43 AM			VW2W100-ADV or 20-SGCWE-ADV) with the RS23 serial cable.
20-SGCWE-ADV 0	0.0.0.0.0:0 Standby power su	pply fault 1/1/2018 12:01:43 AM			
20-SGCWE-ADV 0	0.0.0.0.0 Main power supply	fault 1/1/2018 12:01:43 AM			Click the Events tab.
20-SG100-ADV / AXIS-ROP	0.0.0.0:1 Device body oper	red 1/1/2018 12:02:19 AM			Events tab page is visualized.
20-SG100-ADV / AXIS-ROP (	0.0.0.0:1 Device body close	ed 1/2/2018 4:51:09 PM			Click the Start icon on the WirelEx's tool bar.
					<b>WirelEx</b> now downloads, from the central node, real- time wireless system events.
					You can also click the <b>Get history</b> icon on the <b>WirelE</b> : tool bar to download the event history list recorded in the central node's memory.
Connected to translator 20-SGCWE	-ADV v0.00 (RF v14.4)				
WirelEx Fire				X	
File Options Tools Help	Get history	lear Show topology			
	Unk quality	icar Show topology			
Save system	Addre	ss Event	Time	×	
Save system as	0.0.0.0	0:5 Device body opened	12/19/2017 4:33:25 AM		
Open system Open last system	0.0.0.0	0:5 Device body closed	12/19/2017 5:22:42 AM		The event list can be exported to a file.
Export system as	0.0.0.0	0:5 Device body opened	12/19/2017 6:41:54 AM		
Export events as	🐼 НТМL р.о.	0:5 Device body closed	12/19/2017 6:42:23 AM		Click File on the WirelEx main menu.
Duit Quit	1.0.0.0	0:0 Expander #1 powered on	12/19/2017 8:30:50 AM		File many antiona dran dawn
20-SGWE-ADV	1.0.0.0	0:0 Standby power supply fault	12/19/2017 8:30:50 AM		
20-SGWE-ADV	1.0.0.0.	0:0 Main power supply fault	12/19/2017 8:30:50 AM		Select Export events as
- 20-VW2W100-ADV	0.0.0.0	0:0 Translator powered on	12/19/2017 9:29:01 AM		Select HTML.
BAT 20-SGMCB200-ADV / 20-SGFI	200-S-ADV 0.0.0.0	0:16 Output enabled	12/19/2017 9:29:02 AM		
- 20-SGWE-ADV	1.0.0.0	0:0 Expander #1 powered on	12/19/2017 9:29:06 AM		
= 20-SGWE-ADV	1.0.0.0	0:0 Standby power supply fault	12/19/2017 9:29:06 AM		
20-SGWE-ADV	1.0.0.0.	0:0 Main power supply fault	12/19/2017 9:29:06 AM		

EVENT INDICATION	20-VW2W100-ADV or 20-SGCWE-ADV	20-SGWE100-ADV
Translator powered on	Central node has been powered on or reset. All child devices will be reset from alarms and faults.	
Expander #x powered on		Expander #x has been powered on or reset. All child devices will be reset from alarms and faults.
Main power supply fault		Expander's main power supply fault.
Main power supply restored		Expander's main power supply restored from fault.
Standby power supply fault		Expander's secondary power supply fault.
Standby power supply restored		Expander's secondary power supply restored from fault.
No radio link with network device		No communication with a wireless device (expander or child device).
Radio link with child device normal		Communication with wireless device (expander or child device) has been restored.
External jamming level: x%	The channel used by the system is disturbed by radio interference.	The channel used by the system is disturbed by radio interference.
External jamming disappeared	The radio interference on the channel used by the system has disappeared.	The radio interference on the channel used by the system has disappeared.

#### CHILD DEVICE EVENTS

EVENT INDICATION	20-SG100-ADV AXIS-ROP 20-SG200-ADV AXIS-ROH	20-SG350-ADV AXIS-RHT	20-SGCP100-ADV	20-SGMI200-ADV	20-SGR(B)S100-ADV AXIS-RWSM 20-SGVA200-ADV 20-SGBE100-ADV	20-SGMC200-ADV 20-SGFI200-S-ADV	20-SGMCB200-ADV			
Fire alarm	Device in alarm.					-	-			
Device body opened	Device signalled	a tamper fault.					-			
Device body closed	Device has recov	vered from a tamp	er fault.				-			
Main battery low	Main battery's po	ower supply is belo	ow the fault thresh	old.						
Main battery normal	The device has r	e device has recovered from a main battery's power supply fault.								
Standby battery low	Secondary batter	ry's power supply	is below the fault t	hreshold.						
Standby battery normal	The device has r	ecovered from a s	secondary battery's	s power supply fau	ult.					
General fault	Optical cham- ber fault - or - Optical cham- ber is dirty - or - DIP switch is on the <b>'ON</b> " position.	DIP switch is on the " <b>ON</b> " position.	DIP switch is on the " <b>ON</b> " position - or - Always at power on (then automatically recovered).	DIP switch is on the "ON" position - or - Always at power on (then automatically recovered) - or - Short or open circuit on the supervised input.	DIP switch is on the " <b>ON</b> " position - or - Always at power on (then automatically recovered).	Always at power on (then automatically recovered) - or - Short or open circuit on the supervised output.	Tamper fault - or - Always at power on (then automatically recovered) - or - Short or open circuit on the supervised output.			
General fault	The device has r	ecovered from the	e general fault.							
No radio link with child device	The child device	didn't communica	te with the "father'	' node for a period	of time longer tha	n the supervision	lime.			
Radio link with network device normal	The child device	managed to comr	nunicate again wit	h the "father" node	9.					
Child device substitution attempt	Two or more chil	d devices, having	the same wireless	address, are tryir	ng to communicate	with their "father"	node.			
Device programmed	The child device	has been correctly	y linked and progr	ammed.						
Child device deleted	The child device	has been remove	d from the wireles	s system.						
Output enabled			-			The output has b	een activated.			
Output disabled			-			The output has b	een deactivated.			

# CHECK THE WIRELESS DEVICES' STATUS

Collect Start	Help	Get history	Clear 🛛 🦳	Show topolog	v				
System 31 Events	Status 👔	Link quality							
Device	Address		Device	Address	Smoke	Temperature	Contamination	Comment	
20-VW 2W 100-ADV	0.0.0.0.0:0	20-SG10 AXIS-R0	00-ADV OP						
20-SGWE-ADV #1	1.0.0.0.0:0	20-SG20 AXIS-RO	00-ADV DH	0.0.0.0.0:2	30	25	0%		
		20-SG20 AXIS-RO	0-ADV DH	0.0.0.0:3	32	25	0%		
		20-SG10 AXIS-RO	0-ADV )P	0.0.0.0.0:4	31		0%		
		20-SG20 AXIS-RO	00-ADV DH	0.0.0.0.0:5	32	24	0%		
		20-SG3	i0-ADV IT	0.0.0.0.0:6		23			
		20-SGC	P100-ADV	0.0.0.0.7					
		inserved and the served served and the served serve	CP100	0.0.0.0:8					
		10-SGM	1200-ADV	0.0.0.0:9					
		000 20-SGM	C200-ADV	0.0.0.0:10					
		OUT 20-SGM	CB200-ADV 200-S-ADV	0.0.0.0:11					
		OUT 20-SGM	CB200-ADV 200-S-ADV	0.0.0.0.12					

From the **Status** tab page you can have the status, detection and contamination information on all wireless system's devices.

It is divided into two tables: the left one for central and relay nodes, the right one for the child devices.

Click the Status tab.

Status tab page comes into view.

Click the Start icon on the WirelEx's tool bar.

#### DEVICE

You have here the device's icon and product code.

Status symbols are superimposed on the device's icons in the lower right region; if more than one applies, the latest detected one is visualized; these status icons are:

Ø	Device status normal
٥	Device in alarm
0	Device in general fault
?	Link fault
C	Device substitution attempt
6	Device tamper fault
O	Primary battery fault
0	Secondary battery fault
?	Unknown status

# ADDRESS

The wireless address of the device.

#### SMOKE

A numeric value proportional to the smoke concentration detected by the child device (applicable only for smoke and multi-criteria detectors).

#### TEMPERATURE

A numeric value proportional to the environmental heat detected by the child device (applicable only for temperature and multi-criteria detectors).

#### CONTAMINATION

A numeric value, in percentage units, proportional to the degree of dirt contamination in the optical chamber; spans from 0%, clean, to 100%, dirty (applicable only for smoke and multi-criteria detectors).

#### COMMENT

A note that you can assign to a specific wireless device (for example an installation location).



Wireless detector's data (smoke, temperature and contamination) can be viewed in graph format. This type of view is in numeric value vs time format.

To access this type of view double click on the wireless detector's icon.

To exit this type of view close the window.

# CHECK THE WIRELESS LINK QUALITY

WirelEx Fire							• ×
File Options Tools Help							
Collect   Description Start Stop   Collect   Description of the start   Collect   Description of the start   Collect   Collect	lear 🥥 Show topology						
📽 System 🔳 Events 🛄 Status 🍸 Link quality			0 5 10000	0.10.000	5.1.0	1.1	
	20-SGWE-ADV	1.0.0.0.0	22/0	33	5	0:00:12	Connert
_ 20-SGWE-ADV #1 1.0.0.0:0 5	20-SG100-ADV AXIS-ROP	0.0.0.0.0.1	46/0	69	5	0:00:00	
	20-SG200-ADV AXIS-ROH	0.0.0.0.0.2	46/0	69	5	0:00:12	
	20-SG200-ADV AXIS-ROH	0.0.0.0.0:3	46/0	69	5	0:00:08	
	20-SG 100-ADV AXIS-ROP	0.0.0.0.0:4	18/0	27	.4	0:00:12	
	20-SG200-ADV AXIS-ROH	0.0.0.0.0:5	34/0	51	5	0:00:04	
	20-SG350-ADV AXIS-RHT	0.0.0.0.0:6	0/45	68	5	0:00:04	
	20-SGCP100-ADV	0.0.0.0.0:7	21/0	32	5	0:00:04	
	//SGWCP100	0.0.0.0.0:8	26/0	39	5	0:00:04	
	IN 20-SGMI200-ADV	0.0.0.0.0:9	0/30	45	5	0:00:00	
0	OUT 20-SGMC200-ADV	0.0.0.0.0:10			.2		
Average RSSI: 13	OUT 20-SGMCB200-ADV BAT 20-SGFI200-S-ADV	0.0.0.0:11	23/0	34	5	0:00:04	
Current traffic: 14.00%	* (f						- F

From the **Link quality** tab page you can assess the wireless link quality of all wireless system's devices (with the exception of the central node).

It is divided into two tables: the left one for central and relay nodes, the right one for the child devices.

Click the Link quality tab.

Link quality tab page comes into view.

Click the Start icon on the WirelEx's tool bar.

# DEVICE

You have here the device's icon and product code.

# ADDRESS

The wireless address of the device.

#### QUALITY (RSSI)

Wireless link quality with the "father" node in RSSI units.

# QUALITY (DB)

Wireless link quality with the "father" node in dB units.

#### EVALUATION

Wireless link quality with the "father" node in "Mark" units; these units are based on an evaluation scale:

Mark 2	Unacceptable	Very weak: <10 dB
Mark 3	Becoming marginal	Link from 10 to 20 dB; should be >15 dB
Mark 4	Good	Good communication: link from 20 to 30 dB
Mark 5	Excellent	Excellent communication: link > 30dB

#### LINKS

This is the time elapsed from the last communication with the "father" node.

#### COMMENT

A note that you can assign to a specific wireless device (an installation location, for example).

File Options Tools Help							
🙅 Collect   🕨 Start 📕 Stop 🔯 Get history 📍	Clear 🛛 🐼 Show topology						
💌 System 📧 Events 🔝 Status 🍸 Link quality							
Device Address Evaluation	Device	Address	Quality [RSSI]	Guality (dB)	Evaluation	Links	Comment .
20-VW2W100-ADV_0.0.0.0.0.0	20-SGWE-ADV	1.0.0.0.0	14/0	21	A	0:00:12	
20-SGWE-ADV #1 1.0.0.0.0 4	20-SG100-ADV AXIS-ROP	0.0.0.0.0:1	46/0	69	5	0:00:04	
-	1 20.95200 ADV	Show dev	ice history				
	AXIS-ROH	Clear dev	ice history	9	5	0:00:12	
	20-SG200-ADV AXIS-ROH	Clear all c	levices history	9	5	0:00:12	
	20-SG100-ADV AXIS-ROP	0.0.0.0.0.4	22/0	33	5	0:00:08	
	20-SG200-ADV AXIS-ROH	0.0.0.0.0.5	18/0	27	.4	0:00:00	
	20-SG350-ADV AXIS-RHT	0.0.0.0.6	23/0	34	5	0:00:08	
	20-SGCP100-ADV	0.0.0.0.7	35/0	52	5	0:00:04	
	//SGWCP100	0.0.0.0.8	20/0	30	5	0:00:04	
	IN 20-SGMI200-ADV	0.0.0.0.9	19/0	28	.4	0:00:08	
	OUT 20-SGMC200-ADV	0.0.0.0.0 10			.?		
Current RSSI: 13 Average RSSI: 14	OUT 20-SGMCB200-ADV	0.0.0.0.11	31/0	46	.5	0:00:04	
Current traffic: 8.40%	+ 4						



Click the child device row you are interested in.

The row highlights.

Right click the highlighted row.

Contextual menu pops up.

Click Show device history menu option.

Note: this option can be shortcut by double clicking the row.

💎 WirelEx Fire File Optic ons 20-SG100-ADV / AXIS-ROP #1 🖑 Collect 🗼 Decibe Sva tem 11 Ev Links 0:00:00 20-SGWE-AD R Device S [dB] 0:00:12 0:00:12 0:00:12 16 0:00:08 [%] 0.00.00 250 -200 -150 -100 -50 0.00.04 0:00:16 -26 -52 -78 Noise dBm] 0:00:04 104 2 130 Current RSSI: Average RSSI -250 -200 -150 -100 -50 0:00:12 Current traffic Connected to translator 20-VW2W100-ADV (Vega) v0.00 (RF v14.4)

The device history window of the selected child device pops up.

The window shows the following graphs:

Device S / N	Child device's signal / noise ratio vs time. It is the wireless link quality ( <b>Quality</b> column in the previous window). Can be expressed either in dB or in RSSI units.			
Traffic	Child device channel's traffic percent- age vs time. It is expressed in percentage units.			
Noise	Child device channel's noise vs time. Can be expressed either in dBm or in RSSI units.			

You can choose whether to have the readings in dB or RSSI by selecting the unit type in the drop down selection list in the upper left area of the window.

These are the other contextual menu's options you can use:

# CLEAR DEVICE HISTORY

Clears all the Device S / N graph's values of the child device you have selected.

# CLEAR ALL DEVICES HISTORY

Clears all the Device S / N graph's values of all child devices in the list.



Use the P1, P2, P3, P4 buttons and the display on the translator's front board to navigate through the module's options menu.

- 1) Press P3 or P4 to scroll up or down until rF is displayed.
- 2) Press P2.
- 3) EXP is displayed.
- 4) Press P2.
- 5) Press P3 or P4 to scroll up or down until LOAd is displayed.
- 6) Press P2.
- 7) ConF is displayed.
- 8) Press P2.
- 9) donE is displayed.
- 10) Press repeatedly P1 until the display is cleared.



The control panel can log the wireless system correctly only if the load procedure is done.



This procedure does not apply to the **20-SGCWE-ADV** central node.

# GIVE THE TRANSLATOR AN ANALOGUE ADDRESS

After you have completed:

- configuring the wireless system with the WirelEx
- loaded the devices' references onto the loop analogue interface

you must assign an analogue address to the translator.

- 1) Press P3 or P4 to scroll up or down until LooP is displayed.
- 2) Press P2.
- 3) SA is displayed.
- 4) Press P2.
- 5) Use P3 or P4 to increment or decrement the translator's analogue address: values range from 1 to 240.
- 6) Press P2.
- 7) SA is displayed. again.
- 10) Press repeatedly P1 until the display is cleared.

The translator is now addressed with the value you have set.

The wireless child devices too have now an analogue address.

Let's make an example: the translator has an analogue address of **10**. Linked to the translator you have three child devices.

You will have:

Translator	address 10
Device # 1	address 11
Device # 2	address 12
Device # 3	address 13

For more information on the 20-VW2W100-ADV analogue address assignment refer to its user manual.



This procedure does not apply to the **20-SGCWE-ADV** central node.

# WIRELESS SYSTEM'S CONFIGURATION SUMMARY

This is just a summary; refer mainly to the specific paragraphs laid out before in this manual.

- 1) Connect the computer RS232 serial cable to the central node (20-VW2W100-ADV or 20-SGCWE-ADV).
- 2) Program the central node.
- 3) Connect the computer RS232 serial cable to an expander (20-SGWE100-ADV).
- 4) Program the expander.
- 5) Repeat programming for all 20-SGWE100-ADV's: go to step 3) until all expanders are programmed.
- 6) Link program the child devices to their intended central node and expanders.
- 7) Load the wireless child device's references onto the loop analogue interface.
- 8) Save the configuration WirelEx model in a file: you may need it in the future.
- 9) Check out that no mistakes were made in the wireless configuration phase (next paragraph).
- 10) Check out that your wireless system works (next paragraph).
- 11) If you are using a 20-VW2W100-ADV, assign to it an analogue address.
- 12) Load the system on the control panel (refer to the control panel's user manual).

# CHECK OUT YOUR WIRELESS SYSTEM CONFIGURATION

When you have completed all the wireless system configuration and programming:

- 1) Check that the 20-VW2W100-ADV (or the 20-SGCWE-ADV) and all 20-SGWE-ADVs are programmed: their name in bold style.
- 2) Check that you have configured all the wireless child devices (correct device types, correct quantities and correct "father" node).
- 3) Check that all child devices have been linked programmed (green check icon in the Programmed column).
- 4) Check the translator table; in particular check that the child device's types are correct, they belong to the correct "father" node and they have the correct device number. Obviously check that you have all the child devices in the table.
- 5) Perform a Collect all system properties.
- 6) Repeat checks 1), 2), 3), and 4).
- 7) If you are using a 20-VW2W100-ADV, check that there is no load error ("LOEr").
- 8) If you are using a 20-VW2W100-ADV, check the child device's list using the front board keypad-display's List function. You can have more information on this function from the 20-VW2W100-ADV user's manual.

# CHECK THAT YOUR WIRELESS SYSTEM WORKS

- 1) Check that the wireless system raises events: try to trigger a tamper fault and alarm a detector or a call point.
- 2) Check the status of the wireless devices, in normal, alarm and fault statuses.
- 3) Check the good wireless link quality of the all devices.

# THE FIRECLONE UTILITY

If you need to replace a 20-VW2W100-ADV, 20-SGCWE-ADV or 20-SGWE-ADV with another one and you want to avoid reconfiguring the device with WirelEx, you can use the FireClone utility.

FireClone permits you to copy from the old to the new module the programmed configuration data.

S WirelEx Fire					-		x
File Options Tools Help	2						
Collect 🗼 🥌 Expanders cleaning utility	Show topology						
📑 System 📧 E 🔤 Radio field analyze utility							
Devic 🤕 Fire system clone utility	Device	Address	Quality [RSSI]	Quality [dB]	Evaluation	Links	1.
- 20-VW2W1 🔤 Voice annunciator library utility	20-SGWE-ADV	1.0.0.0.0:0	22/0	33	5	0:00:12	
- 20-SGWE-ADV #1 1.0.0.0:0 .5	20-SG 100-ADV AXIS-ROP				5		
	20-SG200-ADV AXIS-ROH	0.0.0.0.0:2	0/45	68	5	0:00:08	
	20-SG200-ADV AXIS-ROH	0.0.0.0.3	0/45	68	5	0:00:04	
	20-SG 100-ADV AXIS-ROP	0.0.0.0.0:4	20/0	30	5	0:00:08	
	20-SG200-ADV AXIS-ROH	0.0.0.0.0:5	18/0	27	4	0:00:04	
	20-SG350-ADV AXIS-RHT	0.0.0.0:6	0/29	44	5	0:00:04	
	20-SGCP100-ADV	0.0.0.0:7	35/0	52	5	0:00:12	
	//SGWCP100	0.0.0.0:8	20/0	30	5	0:00:08	
	IN 20-SGMI200-ADV	0.0.0.0.9	19/0	28	4	0:00:12	
	OUT 20-SGMC200-ADV	0.0.0.0:10			?		
Current RSSI: 19 Average RSSI: 14	OUT 20-SGMCB200-ADV	0000011	22/0	33	5	0.00.00	١.
Current traffic: 13.60% +	KAT 20-SGH200-S-ADV		2.00				F.
Connected to translator 20-VW2W100-ADV (Vega) v0.00 (RF v14.	4)						

On WirelEx, click the Tools menu.

On the drop down menu click Fire system clone utility.



FireClone's main window appears.

Click **Options** on the main menu.

On the drop down menu click Settings.

ا 📀	FireClone 2.0.2	
File	Options Help	
ſ	Settings	Ì
	COM port	l
	COM93 ·	ſ
	Verify Written Data	
Pr	Language	ł
Ru	English •	
	Apply Cancel	5

Settings dialogue window pops up.

Select the COM port.

Verify Written Data: you can specify whether Fire-Clone checks the configuration data that was transferred to the destination module. It is suggested to keep this box checked.

Select the desired Language.

Apply to confirm the changes, Cancel to discard them.



Connect your computer to the **old** central node or expander via the RS232 cable. Do not use wireless serial interfaces.

Click the left image.

Wait that the configuration is downloaded.

Connect your computer to the **new** central node or expander via the RS232 cable. Do not use wireless serial interfaces.

Click the right image.

Wait that the configuration is uploaded.

The configuration has been copied.

Note that the configuration is copied temporarily on the computer and not saved on its hard drive; if you exit **FireClone** after reading it, this will be deleted.

You must complete the copy operations in one Fire-Clone session.