



# SPCS310

# SPC Pro Installation & Configuration Manual

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# 1 Meaning of symbols

There are several symbols in the document:

Symbol	Description
SP64xxx	Not available for SPC42xx, SPC43xx.
IP	Only available for SPC controller with IP interface (SPC43xx/SPC53xx/SPC63xx).
()	Not available for installation type Domestic.
	Only available in unrestricted mode.
1	Find further information about Security Grade, Region or Mode in text.
$\bigcirc$	See Appendix for further information.

# 2 Technical data

Communication protocol	<ul> <li>Proprietary (via RS232, USB, TCP/IP on Ethernet, PSTN, GSM)</li> <li>Data transfer from/to SPC Fast Programmer</li> </ul>		
System compatibility	<ul> <li>Single PC solution</li> <li>Running on PCs with Windows XP/Vista</li> <li>Fully supports SPC42xx/SPC43xx/SPC52xx/SPC53xx/SPC63xx</li> </ul>		
Memory	Min. 1 GB required		
Database	Local file storage in compressed format.		

# 3 Software description

The SPC Pro is a PC based software application that provides the user with the ability to program and configure SPC systems on either a local or a remote connection. All of the programming features accessible through the SPC embedded browser interface are also provided by SPC Pro.

## 3.1 Operational modes

SPC Pro provides the user with the ability to create multiple installation profiles. Each profile consists of the installation name, ID and connection details which will be listed in turn on the SPC Pro installation page.

Once an installation profile has been created, it can be configured by entering configure mode. In configure mode, all of the programming features (zones, outputs, timers, etc.) can be configured as required and saved.

#### 3.1.1 Offline mode

You can create new installation profiles, edit or delete existing profiles without ever connecting to an installation. In this mode of operation each of the installations can be configured off-line and the configuration saved for future downloads if required.



will be displayed in the

Configuration Mode Toolbar [ $\rightarrow$  19].

When SPC Pro is not connected to a panel the icon

The text **offline** will be presented at the top of each programming window to remind you that you have not yet connected to an installation site. All status refresh buttons will be disabled when offline.

#### 3.1.2 Online mode

When you enter configure mode for an existing installation, the option to connect to a panel is presented. In this mode a direct connection to the panel is established allowing you to read and configure all of the programming features of the selected installation.

When SPC Pro is connected to a panel the icon will be displayed in the

Configuration Mode Toolbar [ $\rightarrow$  19].

The text **online** will be presented at the top of each programming window to remind you that you are connected to an installation site. Refresh and status programming buttons (such as zone isolate, inhibit, etc.) will be enabled when online.

## 3.2 Connectivity

The SPC Pro can connect to the SPC controller via the following interfaces.

#### 3.2.1 Ethernet interface

IP

Your PC must have an Ethernet network card to connect locally via a Local Area Network (LAN), remotely via a Wide Area Network (WAN) or directly to the Ethernet Port on the controller using a crossover cable.

For details on how to connect to the controller using an IP connection see page  $[\rightarrow 219]$ .

#### 3.2.2 Direct USB

A direct connection to the controller via the USB port of your PC is supported. The SPC USB drivers must be installed on your PC. These drivers are contained on the SPC CD.

For details on how to connect to the controller using a USB connection see page  $[\rightarrow 220]$ .

#### 3.2.3 Direct serial

A direct connection from the serial port on your PC to the serial port on the controller is supported by SPC Pro.

For details on how to connect to the controller using a serial connection see page  $[\rightarrow 221]$ .

#### 3.2.4 Modem

A remote connection to the controller via a PSTN or GSM modem is also supported. Your PC must have a functioning PSTN/GSM modem installed for a connection to be established. For a PSTN connection a functioning PSTN line must be connected to the modem. The remote the controller must also have a PSTN/GSM modem installed and configured to answer incoming calls.

For details on how to remotely connect to the controller see page [ $\rightarrow$  224].



2	Remote SPC connectivity
С	IP network
D	PSTN / GSM network
E	Router
F	Modem

# 4 Installation

## 4.1 Installing new SPC Pro software



#### **WARNING**

Before installing the latest version of SPC Pro, you must uninstall any older versions.

The latest versions of SPC Pro setup program is located on the SPC support CD which comes with the control panel.

- 1. Click on setup.exe.
  - $\Rightarrow$  The setup wizard is displayed.
- 2. Click Next.
- 3. Enter a user name and a company name.
- 4. Click Next.
  - ⇒ The following window is displayed:



- 5. Choose the installation type.
- 6. Click Next.
- 7. Click Install.
  - ⇒ SPC Pro will be installed.
- 8. Click Finish.



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# 5 Getting started

# 5.1 Login

- 1. Click the icon SPC Pro in the Windows programs menu bar.
  - ⇒ The following window is displayed:

	Login
	Password:
	Cogin
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**2.** Click on the appropriate flag to change the language.

The language flags only change the language used in the application. To change the language for the keypads, web interface and event logs see page [ $\rightarrow$  78]. Note that if you change the system language from SPC Pro, the system log language will only update after a disconnect and reconnect to panel.

3. Enter the default password (1111) in the field Password.

The password for logging on to the application is not related to the password for connecting to the panel (see page).

- 4. Click the button Login.
  - ⇒ The following window will be displayed.
  - ⇒ The window lists all of the installation profiles created on the system.

SP	SPC Pro Installations							
	Installations may be filtered by Group using the drop-down list below							
	Groups Filter: All Groups			Maintenanc	e Filter :	All F	Panels	
ID	Installation Name Address	Maintenance Report	Group	Date Stamp	IP	Modem	Panel Version	Panel Type
1	Office Dublin	X Comms Error	DEFAULT GROUP	27.01.2010 12:10:42	9		V2.0	SPC6300
3	Installation 2	💡 Awaiting First Report	DEFAULT GROUP	24.03.2010 11:02:15	<u>i</u>		V2.0	SPC6300
5	Installation 3	Service Overdue	DEFAULT GROUP	24.03.2010 11:02:15			V2.0	SPC6300
	Add New	😥 Edit 🛛 🤣 Co	nfigure R	emote Maintenance Report	(s)		SPC Fast	t Programmer
	Language : English							

ID	This number uniquely identifies the installation (1 – 999999).
Installation Name	The name of the installation.
Address	The installation address.

Panel Type	The type of control panel.
Group	Each installation may be categorised into distinct groups, allowing the user to readily recognize installation sites by customer.
Date Stamp	The last time that the installation was configured with SPC Pro.
IP	The IP address of the installation.
Modem	The modem associated with the installation.
Panel Version	Displays the firmware version in the panel.

On entering this page for the first time the list will be empty and you will be required to create an installation profile in order to proceed (see page [ $\rightarrow$  15]).

## 5.2 Installations

## 5.2.1 Adding an Installation

A SPC Pro connection must be enabled in Engineer programming on the control panel before a connection can be established (see page [ $\rightarrow$  26]).

- 1. Click the button Add New.
  - ⇒ The following window will be displayed.
- 2. Configure the fields as described in the table below.
- 3. Click OK.

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	stanation	
SPC Pro ID : Installation Name :	0 N.B. Must be unique ID	(1-999999)
Installation Address :		
Panel Type :	SPC6300 -	
Firmware Version :	V3.4	<b>-</b>
*Region :	Select Region	•
*Grade :	-	•
Group :	DEFAULT GROUP	- 🛅
Panel IP Address :	192. 168. 1 . 100 IP Port : 50000	
Phone Number 1:	5	
Phone Number 2 :		
Password :	******	

SPC Pro ID	Enter a unique number for each installation. This number uniquely identifies the SPC Pro installation (1- 999999).
	<b>Note:</b> This is not the same value as the <b>Installation ID</b> , displayed in the Panel Status\Summary, which uniquely identifies the panel.
Installation Name	Enter an installation name before the installation is saved on the system.
Installation Address (optional)	Enter an address to act an aid to identify individual sites.
Panel Type	Select a type of panel from the dropdown list.
Firmware Version	Select the firmware version from the dropdown list.
Region	Select the region from the dropdown list.
Grade	Select the grade from the dropdown list.
Group	Each installation may be categorised into distinct groups, allowing the user to readily recognize installation sites by customer.
Panel IP Address	Enter an IP address for the installation.
IP Port IP	Enter an IP Port for the installation.
Phone Number 1	Enter a telephone number that is associated with the PSTN Line or GSM number assigned to the primary modem on the SPC controller. SPC Pro will attempt to make a call on this number when remotely connecting via a

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Installations

	modem. If this connection does not succeed, Telephone Number 2 will be dialled
Phone Number 2	Enter a telephone number that is associated with the PSTN line or GSM number connected to the backup modem on the controller. SPC Pro will only dial this number if a connection on telephone number 1 did not succeed
Password	Enter a password to enable the connection to the panel. <b>Note</b> : This password must match the SPC Pro password programmed in the controller

#### Date Stamp

In addition to the basic installation parameters a field Date Stamp is displayed.

In	stallations may be filte	red by Group us	ing the drop-down li	ist below				
Gro	ups Filter : All Groups	i dina kati kati di dina kini kati ni di kati ni		•				
D ID	Installation Name	Address	Panel Type	Group	Date Stamp	IP	Modem	Firmware Version
	Installation2	Address 2	SPC6300	DEFAULT GROUP		颪		V3.2
	Installation3	Address 3	SPC5300	DEFAULT GROUP	150	ē		V1.0
	Installation4	Address 4	SPC6300	DEFAULT GROUP	06/02/2013 15:59:48	a		V3.4

This field displays the following:

- The last time an installation configuration was uploaded from, or saved to a panel.
- The last time an installation configuration was saved locally on the PC.

Date stamp fields that are displayed as blank (–) indicate that these installations were added to the system without ever being configured or sent to a panel ( i.e. only the basic site initialisation details were configured and saved).

Although SPC Pro allows you to add a large number of installations (1 - 999999), you can only connect to one installation at a time. Any attempt to simultaneously connect to more than one configuration will be rejected.

## 5.2.2 Configuring an installation

- 1. Click an installation from the list.
- 2. Click the button Configure.
- $\Rightarrow$  The Configuration window [ $\rightarrow$  18] will be displayed.

#### 5.2.3 Copying an Installation

Installation profiles can be copied and edited to create a new profile. This is a convenient method of creating a number of similar profiles.

- 1. Click on an existing profile.
- 2. Right click and select Copy/Create New Installation from the dropdown menu.
- ⇒ The Installation Details window display for editing.

#### 5.2.4 Deleting an installation



It is good practice to note the details of an installation you are about to delete. Once an installation has been deleted from SPC

Pro all information for that installation can not be retrieved.

When you delete an installation, the ID number for that installation will also be deleted. This number is free to be used again for a new installation.

- 1. Click an installation from the list.
- 2. Click the button Delete.
  - ⇒ The following message will be displayed:



- 3. Click Yes.
- ⇒ The installation is deleted.

#### 5.2.5 Editing installation details

- 1. Click an installation from the list.
- 2. Click the button Edit.
  - ⇒ The Edit Installation Details window is displayed. The Edit Installation Details window is identical to the new Installation Details window, except it is not possible to edit the Region or Grade of an existing installation in SPC Pro.
- 3. Enter the new data.
- 4. Click Save New Configuration.

#### 5.3 Configuration window

Once an installation has been added to SPC Pro it may be configured as required in the following window:

IS Present In Frances	Door Controller     Commational     Analy Information     System     Sys	A De Core 21.04.2010 12:14:29 Core	Ethernet Ethernet Potensi Potensi Betreat B	r parate )
Status Inf	Cormation ] also reformation (steel inper Carrel Inper Act, Inper Market	d the panel (prey analid 21.04.2010 12:04.20 Bolde Collar Bolde Coll Bolde Nam 13.04 13.04 13.04 13.04 13.04 13.04 13.04 13.04 13.04 13.04 13.04 13.04 13.04 13.04 13.04 13.04 13.04 10.05 10.00	Benerocces to be     Ethernet     Modern     Profiles     Betraal:     Betraal	Provent, )
<u>8</u>	System Ime : Colored Tanger   Auc. Tanger   Auc. Tanger 2 Bel Tanger   Wrołess Module : Artoria Tanger   OWOT Marks: Battery Battery Wolage   Auc. Wolage   Auc. Wolage   Auc. Wolage   Colorent   Auc. Wolage   Date Wolage   Battery Wolage   Battery Colorent   Auc. Wolage   Date Wolage   Battery Colorent   Auc. Wolage   Battery Colorent   Auc. Wolage   Battery Battery Battery   Date Wolage   Battery Battery   Date Wolage   Date Wolage   Colorent   Date Battery   Date B	f the paired Doly another 21.04.2010 12:14:29 bolder Ook bolder Cok Ook Bolder Bolder Hallow Bolder Bolder Bolder Bolder Bolder Bolder Bolder Bolder Cok Cok Cok Cok Cok Cok Cok Cok Cok Cok	Ethernet PAddess : PAddess : PAddess : PAddess : Context Context Paddess : Paddess : P	00.07166.03.18-28 192.164.1.00 192.164.1.00 46.121 bries bytes Photom Deubled 
	System Time : Calined Tanger : Aux. Tanger 1: Aux. Tanger 2: Bel Tanger : Welelses Module : Autorice Tanger Welelses Module : Autorice Tanger Battery Wolage : Aux. Voltage Aux. Voltage : Aux. Voltage Ext. Bel Fuse Ext. Bel Fuse : Buttery State : Aux. State Int. Bel Fuse	21.04.2010 12:14:29 Boldle CX Boldle Boldle CR CR CR CR CR CR CR CR CR CR CR CR CR	Modern 1 PAddess : PAddess : Betradit : Gatrwy : Receive : Tranné : Modern Status : Yose Fitted : Ure Status : Soemy Call & detom : Outgoing Call : Outgoing Call :	00.07 db 03 18 20 192 db 1.00 0.0.0 65 12 0 the bytes Photon Deabled
<u>P</u>	Mates : Battery : Battery Votage : Acis: Votage : Acis: Votage : Acis: Cotage : Est. Bell Fuee : CBUS	OK Isolate AgiA 31.0V 330bmA OK OK OK	Modern1 Noden Status : Syse Fitted : Line Status : Incoming Call & Dutgoing Call duration : Failed Dai attempts : Failed Dai attempts :	Moden Daabled
<u></u>	Mains : Battery   Battery Votage : Aux Current   Aux Current   Aux Fuse   Ext. Bell Fuse   Int. Bell Fuse	OK Isolate NJA J3.9V J320mA OK OK OK	Modem Status : Sype Fitted : Line Status : Incoming Calls : Outgoing Calls : Outgoing Call duration : Outgoing Call duration : Falled Dial attempts :	Nodem Deubled
X	BUS			5.75.)
			Modern2	Produce 2 Log
	Cable Status I Expanders Online :	4 Offine : D	Modem Status : Type Fitted :	Modern Disabled
	Cabinet Tanger   Antenna Tanger :	OK OK	Incoming Calls : Incoming Call duration :	1
-	RP Interference : Puse : Manu :	CK CK	Outgoing Calls : Outgoing Call duration : Failed Dial attempts :	44 44
	Battery :	OK		

1	Online Status information (only when SPC Pro connects to the panel).
SP6400X	
2	Configuration Mode Toolbar
3	Program Menu Headings

### 5.3.1 Online status information

System summary	Summary of the panel tampers, Wireless RXR and time.
Power	Summary of the controller electrical parameters (voltages, currents) and the status of the fuses (auxiliary & bell).
X-BUS	Summary of X-BUS status and online expanders.
Ethernet	Summary of Ethernet parameters on the panel.
Modem 1	Summary of the modem parameters for Modem 1 (Primary slot).
Modem 2	Summary of the modem parameters for Modem 2 (Back-up slot).

## 5.3.2 Configuration mode toolbar

Config Mode Toolbar - ONLINE	a 🕹 🕹
🔊 🔊 📮 📮 🗔 💕	🍓 🙆 🧔

Button	Function	Description
<b>\$</b>	Connect to panel	This button is displayed when the SPC Pro is offline. To connect to the SPC panel click this button. The window <b>Select Comms Path</b> will be displayed prompting you to select from one of the connection modes that were

Button	Function	Description		
		programmed for this installation (IP, USB, Serial, Modem 1, Modem 2).		
	Disconnect from panel	This button is displayed when the SPC Pro is online (already connected to a panel). To disconnect from the SPC panel click this button. SPC Pro will prompt you to confirm that you wish to disconnect from the panel. Click on the button Yes to proceed with disconnection.		
	Send Config File to panel	Click this button to send the current configuration to the panel. All programming settings will be transferred to the panel. Ensure that you have correctly configured the installation before clicking this button. This feature is only available in the full engineer mode		
	Get Config file from panel	Click this button to load the panel configuration file in to your configuration file. All programming settings will be loaded on to your configuration file. Any configuration data that is different from the panel configuration will be over written.		
	Keypad Emulation	Click this button to activate a virtual SPC keypad on your PC. This keypad behaves exactly as if you were operating a physical keypad. It allows you to view information on the keypad display and to enter Engineer or User programming by clicking on the keypad buttons (see page [ $\rightarrow$ 217]).		
	Select Soft or Full engineer mode	Click this button to toggle between Soft- and Full Engineer modes. In Full Engineer mode all alarm activations and reporting is de-activated. <b>Note:</b> If the default PIN 1111 is enabled, for example, a new		
		SPC installation, you must change the engineer PIN at the panel. If you do not change your PIN, you will get an information message forcing you to change your default PIN before logging out of full engineer mode.		
		The "Soft Engineer" mode provides fewer programming functionality and is used for system operation. However, programming in "Soft Engineer" mode allows arming and testing procedure on the system. All alarms remain active.		
		<b>Note:</b> If 'Engineer Exit' option is enabled in System Options, the engineer is allowed leave Full Engineer mode with alerts active but must acknowledge all alerts listed before switching from Full Engineer mode to Soft Engineer mode.		
	Save Config File changes	Click this button to save the configuration that you have programmed.		
	Exit Config Mode	Click this button to exit the configuration mode. If you wish to save your configuration changes before exiting click the button <b>Save Config file changes</b> .		

## 5.3.3 Program menu headings

General	Panel Settings	Communications	Advanced
<b>Status</b>	System Settings	Serial Ports	Cause & Effect
System Log	Controller Inputs &	6	

	•
iguration	window

General	Panel Settings	Communications	Advanced
	Outputs	Modems	Calendars
Panel Access Log	Expanders & Keypads	ARC Settings	Triggers
Setup Users	All Zones	EDP Settings	P Mapping Gates
	Wireless	SPC Pro/SPCSafe*	<b>X-10</b>
	All Doors	RM Settings	Advanced Output
	Areas	CEI-ABI	Logo Configuration
		Network Settings	Audio Configuration
			Verification

\* See SPC Remote Maintenance and SPC Safe Configuration Manual.

# 6 Programming overview

# 6.1 Configuration files

### 6.1.1 Storing and retrieving to the panel

Programming data is exchanged between SPC Pro and the panel by means of a configuration file. When you upload or download a configuration file to the panel ALL of the configuration settings are sent or received. It is therefore important that you check all of the configuration data (not just the data you are currently viewing), before sending a file to the panel.



Every configuration file is stored with a time and date stamp. When the SPC Pro connects to the panel, a check is made to determine if your PC configuration file has the same time and date stamp as the configuration file of the panel. See page  $[\rightarrow 208]$ .

If the time and date stamps match, then the configuration data is the same in both SPC Pro and the panel (see note below). If the time and date stamps do not match, a warning message will be displayed to inform you that your local configuration data is not the same as the configuration of the panel.



By uploading configuration settings from the panel and then saving them to a file on your PC (without making any changes), the time and date stamp will be altered. You will receive a warning message to this effect if you attempt to save the same unchanged configuration file back to the panel.

## 6.1.2 Exporting

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SPC Panel

A SPC configuration file (.cfg) contains all of the configuration information for a panel in a portable format that can be stored, attached in an email or imported to SPC Pro again for editing or downloading. The embedded browser on the panel and the Fast Programmer both store and retrieve configuration information in this format.

- 1. Open the window SPC Pro Installations.
- 2. Highlight the installation you wish to export.
- 3. Right click.

- 4. Select Export Installation to File.
  - ⇒ The following window will be displayed:

Export configural	tion to file					8 ?	×
Look in:	😂 SPC Pro		*	G 🖻	) 📂 🛄 -		
My Recent Documents Desktop My Documents	Configurations		A				
My Computer	File name: Files of type:	Export for Installation 1.cfg SPC Config Format (*.cfg) Open as read-only			*	Open Cancel	

- 5. Enter the file name.
- 6. Click Save.

#### 6.1.3 Importing

- 1. Open the window SPC Pro installations.
- 2. Select the menu File > Import Installation from File.
  - ⇒ The following window will be displayed:

Programming configurations offline

Select SPC config	file to import to !	5PC Pro					8	? ×
Look in:	😂 SPC Pro			*	6	t 🆻 🗉	-	
My Recent Documents Desktop My Documents	Configurations			Å				
My Computer	File name:					*		)pen
My Network	Files of type:	SPC Config Fi	les (*.cfg) ad-only			~	Ca	ancel

- **3.** Select the .cfg file.
- 4. Click Open.

## 6.2 Programming configurations offline

SPC Pro provides the user with the ability to create, configure and store configuration files without ever connecting to a SPC panel. In this mode of operation you can create and configure an installation as required and store that configuration until such time as a connection to an actual installation is required.



3 Exported Config File

#### 6.2.1 Saving

- Click the button Save Config File changes in the config mode toolbar.
- ➡ The file is saved locally on your hard disk and is automatically loaded when you access the configuration via SPC Pro.

#### 6.2.2 Exporting

Installation configurations can be exported in a portable format for use by a Fast Programmer device or for emailing to remote sites etc.

These .config files can be saved directly to your hard disk under a programmable name for easy access. To load these files into SPC Pro use the Import Configuration option.

#### 6.3 Connecting to the panel



1	SPC Pro
2	Status Data
3	SPC Panel

- 1. Connect to a target installation.
- 2. Select the local installation configuration on the SPC Pro.
- **3.** Enter the configure mode.
- **4.** Connect to the panel via one of the connection modes (see page [ $\rightarrow$  10]).

On successfully connecting to the panel, the following status information is sent from the panel to SPC Pro:

- Firmware Version
- Configuration file time & date stamp
- Hardware overview: Modem status, wireless receiver status, power, system tampers
- X-BUS status
- Ethernet status
- System Alert status
- Zone status

- Areas status
- Door status

This status information provides the user with an overview of the essential panel configuration data without having to upload the complete configuration from the panel.



SPC Pro will not allow you to connect to a version of panel firmware that is not compatible with it. You must ensure that you have the correct SPC firmware release.

#### 6.3.1 Enabling a connection on the panel

To enable a SPC Pro connection to a panel you must program the panel to accept a connection:

- 1. Enter the Full Engineer mode from a keypad connected to the panel.
- 2. Enter Full Engineer.
- 3. Select Utilities.
- 4. Select SPC Pro.
- 5. Select Enable SPC Pro.
- 6. Select Enabled.
- 7. Select Engineer Access.
- 8. Select Enabled.
- 9. Select Password.
- **10.** Program the password that will be required for a connection (default password: password).

#### 6.3.2 Establishing a connection to the panel

- 1. Click the icon in the Config Mode Toolbar.
  - ⇒ The following window will be displayed:27

Connection	8	×
Select Comms Path:	G	
Connect to : Installation 3 [5]		
<ul> <li>IP Connection - 192.168.1.100</li> <li>Direct - USB</li> <li>Direct - Serial RS232</li> <li>Modem 1</li> <li>Modem 2</li> </ul>		
SPC Siemens Intrunet SPC USB Local Connection	n (C 🔻	]
Connect	t	

Only the connection modes that were programmed for that installation when it was added or edited will be displayed. See page [ $\rightarrow$  15].

- 2. Select the appropriate connection mode.
- 3. Click Connect.

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#### Firmware version

SPC Pro will read the status information on connecting to the panel and display a warning if the version of firmware detected in the panel is not supported by SPC Pro.

If the firmware version of the panel is not supported by SPC Pro please contact Vanderbilt for the latest panel firmware upgrade quoting the version number of your X Pro program.

#### Configuration file Synchronisation

If the configuration information detected in the panel does not match the configuration programmed in SPC Pro the following window will be displayed:



Before you can send or receive configuration data you must synchronize the configuration file on your PC with the panel configuration file. You can do this by overwriting one file with the other.

Vanderbilt recommend that you get the configuration file from the panel BEFORE you send you configuration changes to the panel. This ensures that BEFORE you make any configuration changes, you are working with an exact copy of the current installation configuration.

To synchronize the PC and the panel configuration files:

- 1. Click the button **Continue**.
- **2.** Click on one the following options:
  - Get Config file from panel: uploads panel configurations from panel to PC.
  - Send Config file to panel: downloads panel configurations to panel.

#### Get Config file from panel

Any configuration changes made from a keypad on site while SPC Pro is connected will be overwritten when you send your configuration file to the panel.

If you have not uploaded the configuration from the panel, then it is recommended that you do so. You may then program your configuration changes on top of the downloaded information. When you have completed your changes send it to the panel. Only those configuration settings you have changed are changed on the panel.

#### Send Config file to panel

You may wish to send your configuration file to the panel without ever loading configuration data from the panel. In this case it is important that you have a comprehensive and accurate knowledge of the panel configuration before you send your configuration file.SPC Pro will not allow you to send expander configuration information that does not match the actual expander configuration on the panel. See page [ $\rightarrow$  91].

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# 7 Panel status

## 7.1 Status

This page displays the status and summary of the main SPC components, including system, power, X-BUS and communications.



- 1. Click the tab Summary.
- 2. See tables below for further information.

N.B. The informa	ne Panel Stati ition below shows the	us Information] online status information o	f the panel (only availab	ole when connected to the panel)
Summary		System		Ethernet
Installation Name : Installation ID : IP Address : Installer Name : Installer Phone :	Installation 3 5 192.168.1.100	System Time : Cabinet Tamper : Aux. Tamper 1 : Aux. Tamper 2 : Bell Tamper : Wireless Module : Antenna Tamper :	21.04.2010 14:30:32 Isolate OK Isolate Isolate  OK	MAC Address         00:0F:86:03:16           IP Address         192.163.1.100           Netmask:         255.255.255.0           Gateway:         0.0.0.0           Receive:         85.123 bytes           Transmit:         bytes
		Power		Modem 1 Log
Areas : Users : Zones : Expanders : Keypads Door Controllers : Firmware Version : Panel 5/N :	0 0 18 1 2 1 1 <b>MP2.0 Build 1</b> 123927801	Mains : Battery Voltage : Aux. Voltage : Aux. Current : Aux. Fuse : Ext. Bell Fuse : Int. Bell Fuse :	OK Isolate N/A 13.9V 320mA OK OK OK	Modem Status : Modem Disable: Type Fitted : Line Status : Incoming Calls : Outgoing Call duration : Outgoing Call duration : Failed Dia strengts : Modem 2 I on
		Cable Status : Expanders Online :	Isolate 4 Offline : 0	Modem Status : Modem Disable Type Fitted :
2 Restore	All Alerts :	Communication : Cabinet Tamper :	OK OK	Incoming Calls : Incoming Calls :
🧠 Refi	resh :	RF Interference :	OK OK	Outgoing Calls : Outgoing Calls :
Soft E	ngineer	Mains :	OK OK	Failed Dial attempts :

Offline\Online	Displays the parameters programmed for the installation when it was created
Panel Status	(Installation name, ID, etc.). This data will be updated by the panel data when you
Information	connect to the panel. The firmware version and panel S/N fields are also
	displayed as soon as a connection is made to the panel.

#### Performable actions

The following actions are only possible if a connection has been established.

Restore All Alerts	Restores all active alerts on the panel. These alerts messages are displayed in red text opposite the relevant item.
Refresh	Updates any changes in panel status. You must refresh the status window to display the actual panel status at any particular moment.
Full Engineer / Soft Engineer	To toggle between Soft- and Full Engineer modes. Full Engineer mode disables alarms and prevents reporting of events to a central station.

## 7.2 Zones

For configuration see page [ $\rightarrow$  120].



#### Panel Status

1. Click the tab Zones

#### **2.** See tables below for further information.

"B <sub>∭a</sub> Zo	one Description	📄 Area	Zone Type	🖔 Input	Status
1	Front door	1 -	Entry/Exit	Closed	Isolate
2	Sitting room	1 -	Alarm	Closed	OK
3	Kitchen	1 -	Alarm	Closed	OK
4	Upstairs front	1 -	Alarm	Closed	OK
5	Upstairs rear	1 -	Alarm	Closed	OK
6	PIR Hallway	1 -	Alarm	Closed	OK
7	PIR Landing	1 -	Alarm	Closed	OK
в	Panic button	1 -	Panic	Closed	OK
9		1 -	Alarm	Closed	OK
10		1 -	Alarm	Closed	OK
11		1 -	Alarm	Closed	OK
12		1 -	Alarm	Closed	OK
13		1 -	Alarm	Closed	OK
14		1 -	Alarm	Closed	OK
15		1 -	Alarm	Closed	OK
16		1 -	Alarm	Closed	OK
17	Door 1	1 -	Entry/Exit	Closed	OK
18	Door 2	1 -	Entry/Exit	Closed	OK
&	6	Destaure Aleure		Teslete	

Auto Status Refresh	Tick this button to activate an automatically refreshing of the zone summary. This can only be done for all zones, and not for filter zones.		
Zone Description	Text description of the zone (max. 16 characters).		
Area	Areas to which this zone is assigned.		
Zone Type	The type of zone (Alarm, Entry/Exit, etc.).		
EOL Quality	Displays the EOL quality for the zone state resistance range. Possible values are:		
	<ul> <li>Good — Nominal value +/-25% of the defined range.</li> </ul>		
	<ul> <li>OK — Nominal value +/- 50% of the defined range.</li> </ul>		
	<ul> <li>Poor — Nominal value +/- 75% of the defined range.</li> </ul>		
	<ul> <li>Unsatisfactory — any other value.</li> </ul>		
	• Noisy — indicates a problem detecting the signal. The cabling may be in close proximity to a mains cable or other source of interference.		
	This column is only visible in Engineer mode.		
	For more information on nominal resistance values and their defined ranges, see Wiring the zone inputs.		
Input	The detected input state of that zone (Unknown, Open, Closed, Disconnect, Short, Pulse, Gross, Masked, Fault, Out of bounds, Unstable, DC Sub, Noisy).		
	DC Sub is an input tamper alert. DC substitution performs a periodic check to ensure that no external voltages are being applied to that circuit.		
	Unstable: An unstable state occurs when the zone input resistance value is not stable over a defined sampling period.		
	Noisy: A Noisy state occurs when an external interference is induced onto the input circuit over a defined sampling period.		
	Out Of Bounds: An Out of Bounds state will occur when the resistance value on the zone input does not come within accepted tolerances of the present EOL values.		

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Status	The programmed status of that zone. A status value of Normal means that the zone is programmed to operate normally. The following is a complete list of possible values:
	Isolate, Soak, Inhibit, Tamper, Alarm, Fire Exit, Warning Fault, Holdup Fault, Detector Fault, Line Fault, Panic, Hold Up, Tech, Medic, Lock, Fire, Trouble, PIR Masked, Normal, Actuated, Tamper, Post Alarm. A zone is in the post alarm status if an alarm occurred and the confirmed alarm timed out. This reinstates the zone, however it also flags that an alarm did occur.

Refresh Zones	Updates the status information displayed for the panel.
Log	Highlight a zone and click on the Log button to view a log of the input status of that zone. $[\rightarrow 31]$
Inhibit ①	Click this button to inhibit a fault or open zone. The inhibit operation will disable that fault or zone for one arming period only. Inhibit operation is not available in Security Grade EN 50131 Grade 3.
Restore Alarms	Click this button to restore the alarm condition of the panel.
Isolate	Zone Description . Isolating a zone will deactivate that zone until such time as the zone is explicitly deisolated again. It is recommended that you exercise caution when isolating zones as those zones will not be active every time the system is SET.
Soak	Highlight a zone and click this button to perform a Soak test on that zone.
Seismic Test	Click this button to initiate a test of the selected seismic sensor. For more information on seismic sensors, see Seismic Sensors [ $\rightarrow$ 246].
Hide Closed	Click this button to hide all closed inputs.
Filter Zones	Select a zone type from the dropdown menu. Only the summary of this zone type will be displayed.

## 7.2.1 Quick log - Zone X

To view a quick log of the input status of a zone:

- **1.** Highlight the zone.
- 2. Click the button Log.
- ⇒ The following window will be displayed:

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Quick Log - Zone	17 [Door 1]	
👪 Date/Time	Event	
03/04/2010 17:11:03	Open	
03/04/2010 17:11:04	Close	
21/04/2010 14:41:28	Open	
21/04/2010 14:41:31	Close	
Save Log to File		X Cancel



The most recent event is displayed at the bottom of the list.

## 7.3 Areas

Each area defined on the system and its status is revealed here. For configuration see page [ $\rightarrow$  122].



- 1. Click the tab Areas.
  - ⇒ The following window will be displayed.
- 2. See table below for further information.
- 3. Click Refresh.

🏷 Area	Description	Mod
1		Unse
1		

Area	Area number.
Description	Text description of the area (max. 16 characters).
Mode	The current armed mode of the area.

Partset A

Partset B

Full Set

To change the mode of the area:

🌭 Refresh

1. Click the button Soft Engineer Mode in the Config Mode Toolbar.

Unset

- 2. Select an area from the list.
- **3.** Select a mode for this area by clicking on the relevant button (Unset, Partset A, Partset B, Full Set).

# 7.4 System alerts



- 1. Click the tab SystemAlerts.
- 2. See tables below for further information.

Online	System	Alerts	Summary
OTHER OF	oyacom	rnici ta	ourning y

Alerc	Input	Status	
Controller Mains Fault	OK	OK	
Controller Battery Fault	Fault	Isolate	
Controller Aux. Fuse Fault	OK	OK	
Controller Ext. Bell Fuse Fault	OK	OK	
Controller Int. Bell Fuse Fault	OK	OK	
Controller Bell Tamper	OK	Isolate	
Controller Cabinet Tamper	Fault	Isolate	
Controller Aux. Tamper 1	OK	OK	
Controller Aux. Tamper 2	OK	Isolate	
Controller Antenna Tamper	OK	OK	
Controller RF Jamming	OK	OK	
X-BUS Cable Fault	OK	Isolate	
Fail to Communicate	OK	OK	
User Duress	OK	OK	
User RF Panic Button pressed	OK	OK	
User Man Down Trasmitter Alarm	OK	OK	
	OV	OK	

Alert	Description of the system alert.
Input	The actual state of the alert that was detected on the panel (OK, Fault).
Status	The programmed status of the system alert, i.e. whether the alert has been isolated or inhibited. A status value of OK is displayed if the alert condition has not been disabled in any way (see page).

Refresh	Click this button to update the status of the system alerts.
Restore Alarms	Click this button to restore ALL alerts on the panel
Inhibit ①	Click this button to inhibit a fault condition. The inhibit operation will disable that fault or zone for one arming period only. Inhibit operation is not available in Security EN 50131 Grade 3.
Isolate	Click this button to isolate the zone. Isolating a zone will de-activate that zone until such time as the zone is explicitly de-isolated again. It is recommended that you exercise caution when isolating zones as those zones will not be active every time the system is SET.

# 7.5 X-BUS



- 1. Click the tab X-BUS.
- 2. See tables below for further information.

ine OK

Expander ID	This ID number is a unique identifier for the expander.
Description	Text description of the expander. This text will also appear on the browser and keypad.
Cable Map	The order that the system sees the expanders on the X-BUS.
Туре	The type of expander detected (I/O, PSU, keypad etc.).
Firmware version	The firmware version of the expander.
Comms	The status of the expander (online or offline).
Status	The status of the expander (OK, Fault).
PSU	Type and version of PSU, if fitted.
Wireless	Model of wireless module, if fitted.

Refresh	Click the button to update the status of the X-BUS.
Cable Map	Click the button to get a list of expanders/keypads that are physically connected to the panel.



On first connecting to the panel this information will be displayed providing you with a comprehensive overview of the X-BUS configuration without requiring you to upload the configuration file from the panel. This information is particularly useful if you are attempting to add/configure expanders on a panel. See page  $[\rightarrow 91]$ .

#### Expander status

To view the online status of an expander connected to the X-BUS:

- 1. Click an expander from the list.
- 2. See tables below for further information.

- vnander	Status		
-xpanaer	Juius		E
Expan	der Status Details		
8			
	Expander ID :	1 [	View PSU Status
100 A	Type:	I/O Expander [8	Input / 2 Output]
	5/N:	94289801	
	Firmware Version :	1.09 13DEC10	
	Voltage :	13.6V	
	Battery Voltage :	N/A	
	Current :	45mA	
	RE Type -	Not Fitted	
	DE Hausian i	and a factor	
	RF Version :	2776	
	Reader Type :	Not Fitted	
		Input	Status
Communication	ា	OK	OK
Cabinet Tampe	er	Fault	Isolate
Fuse Fault		OK	OK
Mains		OK	OK
Battery		Fault	Isolate
PSU		Fault	Isolate
💈 Restor	e Alerts	Inhibit	Isolate
		Class	

Communication	The physical status (OK, Fault) and the programmed status (OK, Isolated, Inhibited) of the X-BUS cable connection to the expander.
Cabinet Tamper	The physical and programmed status of the expander cabinet tamper.
Fuse fault	The physical and programmed status of the expander fuse.
Mains	The physical and programmed status of the mains power.
Battery	The physical and programmed status of battery.
PSU	The physical and programmed status of the connected PSU. To view more detailed status on the PSU, click on the <b>View PSU Status</b> button. (See PSU status)

Restore Alerts	Click the button to restore ALL alerts on the panel.
Inhibit	Click this button to inhibit a fault condition. The inhibit operation will disable that fault or zone for one arming period only. Inhibit operation is not available in Security EN 50131 Grade 3.
Isolate	Click this button to isolate that zone. Isolating a zone will de-activate that zone until such time as the zone is explicitly de-isolated again. It is recommended that you exercise caution when isolating zones as those zones will not be active every time the system is SET.


The expander status data will vary depending on the type of expander selected, i.e. the window displayed shows the physical and programmed status of a number of parameters for an expander.

### 7.5.1 PSU Status

The **PSU Status** window displays details of the current status of the PSU and its outputs in addition to the status of any connected batteries.

The following PSU types are supported:

- SPCP 332/333 Smart PSU (referred to as Smart PSU)
- SPCP 355 Smart PSU

#### Smart PSU Status

The following image shows the Smart PSU status:

ise
Ж
OK
I/A

Name	Description
Туре	The type of power supply unit (PSU).
Version	The version of the PSU.
Mains Status	Displays the condition of the mains connection. Possible values are Fault or OK.
Battery Link	Displays the type of battery connected.

Name	Description
Battery Status	Displays the condition of the battery connection. Possible values are Fault or OK.
Battery Voltage	Displays the voltage reading of the battery.
Battery Current	Displays the current taken from the battery.
Outputs	Displays the voltage on the outputs, the current drawn by the output and the condition of the fuse on the output.

### SPCP355 Smart PSU Status

The following image shows the SPCP355 PSU status.

U Status			
Status for PSI	J connected	to EnetNode	
<u>1</u> -	Type:	Type2	
J.S.	Version :	V2	
Ma	ins Status :	OK	
Ter	nperature :	25 Degrees (C)	
Loa	ad Voltage :	14.4V	
Loa	ad Current :	18mA	
Cha	rge Status :	Fully Charged	
Prim	ary Circuit :	OK	
Cha	rge Circuit :	OK	
ttery			
	Status	Voltage	Current
Battery 1:	OK	13.5V	121mA
Battery 2 :	OK	13.6V	0mA
itputs			
	Voltage	Fuse	Tamper
SU Output 1 :	OK	OK	
SU Output 2 :	OK	OK	
SU Output 3 :	OK	OK	
SU Output 4 :	OK	OK	
SU Output 5 :	OK	OK	
PSU Output 6 :	OK	OK	OK
SU Output 7 :	OK	OK	OK
SU Output 8 :	OK	OK	OK
NF Output :	OK	OK	
PSU Output 9 :	OK		

Name	Description
Туре	The type of power supply unit (PSU).
Version	The version of the PSU.
Mains Status	Displays the condition of the mains connection. Possible values are Fault or OK.
Temperature	Displays the temperature of the PSU.
Load voltage	The voltage on the PSU
Load Current	The current drawn by the PSU.
Charge Status	Displays the condition of the battery charge.
Primary Circuit	Displays the condition of the primary circuit which supplies power when the mains is connected
Charge Circuit	Displays the condition of the charge circuit which charges the batteries when the mains is connected
Battery	Displays the charge status, voltage and current available from the batteries.
Outputs	Displays the voltage, fuse condition and tamper condition of the PSU outputs.

# 7.6 Keypads

For configuration see page.



- 1. Click the tab Keypad.
- 2. See tables below for further information.

#### Online Keypad Summary

engrana of the	L Description	Cable Man	Type	Firmware	Comms	Status	
	Description	Chan, 1 - Position 1	Keypad	2.07 19SEP08	Online	OK	
2		Chan. 1 - Position 4	Keypad	2.07 19SEP08	Online	OK	

Expander ID	This ID number is a unique identifier for the keypad.
Description	Text description of the keypad (max. 16 characters).
Cable Map	The position of the keypad on the X-BUS.
Туре	The type of expander detected (=keypad).
Firmware version	The firmware version of the keypad.
Comms	The status of the keypad (online or offline).
Status	The status of the keypad (OK, Fault).

### Performable actions

Refresh	Click on the refresh button to update the status of the system alerts.
Cable Map	Click the button to get a list of expanders/keypads that are physically connected to the panel.

#### Keypad status

To view the online status of a keypad:

- **1.** Click a keypad from the window Online Keypad Summary (see page [ $\rightarrow$  39]).
- 2. See tables below for further information.

Keypad	Status			Ż
Кеур	oad Status Details			
	Keypad ID :	1		
200	Type :	Keypad		
	5/N:	119959801		
	Firmware Version :	2.07 195EP08		
	Voltage :	13.1V		
	Battery Voltage :	N/A		
	Current :	OmA		
	RF Type :	Not Fitted		
	<b>RF Version :</b>			
	Reader Type :	EM4100		
		Input	Status	
Communicat	tion	ОК	OK	
Cabinet Tan	nper	OK	OK	
Panic		OK	OK	
🔹 Rest	ore Alerts	Inhibit	Isolate	
		Close		

Communication	The physical status (OK, Fault) and the programmed status (OK, Isolated, Inhibited) of the keypad cable connection to the expander.
Cabinet Tamper	The physical and programmed status of the expander cabinet tamper.
PACE	Applies only to Keypads with a PACE receiver installed.
Panic	Keypad Panic Alarm status revealed.

### Performable actions

Restore Alerts	Click the button to restore all alerts on the panel.
Inhibit	Click this button to inhibit a fault condition. The inhibit operation will disable that fault or zone for one arming period only. Inhibit operation is not available in Security Grade EN 50131 Grade 3.
Isolate	Click this button to isolate that zone. Isolating a zone will de-activate that zone until such time as the zone is explicitly de-isolated again. It is recommended that you exercise caution when isolating zones as those zones will not be active every time the system is SET.

## 7.7 Door Controllers



- 1. Click the Door Controllers tab.
- 2. See table below for further information.

Online Door Controller Summary							
ExpanderID	Description	Cable Map	Туре	Firmware	Comms	Status	
1		Chan. 1 - Position 2	Door Controller [4 Input / 2	1.00 B4	Online	ОК	N
			-				
S Re	fresh 🛛 🎯 Cable	Мар					

Expander ID	This ID number is a unique identifier for the door controller.
Description	Text description of the door controller (max. 16 characters).
Cable Map	The position of the door controller on the X-BUS.
Туре	The type of expander detected (=door controller).
Firmware version	The firmware version of the door controller.
Comms	The status of the door controller (online or offline).
Status	The status of the door controller (OK, Fault).
PSU	Specifies if the door controller has a PSU.

#### Performable actions

Refresh	Click on the refresh button to update the status of the system alerts.
Cable Map	Click the button to get a list of expanders/keypads that are physically connected to the panel.

#### Door controller status

To view the online status of a door controller:

- 1. Click a door controller from the list.
- 2. See tables below for further information.

Expander ID :	9	View PSU Status
Type:	Door Controller [4]	nout / 2 Output]
Type.	Door Controller [4.	aput / 2 output]
5/N:	1	
Firmware Version :	1.08 Build28	
Voltage :	13.2V	
Battery Voltage :	N/A	
Current :	OmA	
RF Type :	Not Fitted	
RF Version :	-	
	Input	Status
Communication	OK	OK
Cabinet Tamper	OK	OK
use Fault	OK	OK
lains	OK	OK
attery	OK	OK
50	UK	UK
18	22	

Communication	The physical status (OK, Fault) and the programmed status (OK, Isolated, Inhibited) of the keypad cable connection to the expander.
Cabinet Tamper	The physical and programmed status of the expander cabinet tamper.
Fuse Fault	The physical and programmed status of the door controller fuse.

### Performable actions

Restore Alerts	Click the button to restore all alerts on the panel.
Inhibit	Click this button to inhibit a fault condition. The inhibit operation will disable that fault or zone for one arming period only. Inhibit operation is not available in Security Grade EN 50131 Grade 3.
Isolate	Click this button to isolate that zone. Isolating a zone will de-activate that zone until such time as the zone is explicitly de-isolated again. It is recommended that you exercise caution when isolating zones as those zones will not be active every time the system is SET.

# 7.8 Doors



- 1. Click the **Doors** tab.
- 2. See tables below for further information.

Online Door Summary						
🛃 Door 🖳 Zone	🛅 Area	🏷 DPS	🖔 DRS	Status	Door Mode	
1 17 - [Door 1]	1 - 🛛	Closed	Open	OK	Normal	
2 18 - [Door 2]	1 - []	Closed	Open	OK	Normal	
Netresh Doors	Log	Lock	📄 Unlock	V Normal	Momentar	ry

Door	This ID number is a unique identifier for the door.
Zone	The zone number the door position sensor is attached to (only if the door position sensor input is also used as intrusion zone).
Area	The area the door position sensor input and the card reader are assigned to.
DPS	Status of the door position sensor.
DRS	Status of the door release switch.
Status	The status of the door (OK, fault).
Door Mode	Specifies the door operate mode.

### Performable actions

Refresh	Updates the door summary.
Log	Displays a log of events for the selected door.
Lock	Locks the selected door.
Unlock	Unlocks the selected door.
Normal	Returns the door to normal system control.
Momentary	Unlocks the door for one timed interval.

### 7.8.1 Access log - Door X

To view a quick log of the status of a door:

- $\,\triangleright\,\,$  SPC Pro is connected to a panel.
- **1.** Click a door from the list.

2. Click the Log button.

**i** 

The most recent event is displayed at the bottom of the list.

- Click the Save Log to File button to save the current event log to a file (e.g. \*.txt).
- ⇒ You can open this log file after disconnecting from the panel.

## 7.9 System Log

This log displays all the system events of the SPC system.



- $\triangleright$  SPC Pro is connected to a panel.
- Click the **System Log** tab.
  - ⇒ The following window will be displayed:

rom: 👩 01.04.2010 💌 — 00:00:00 🗧	Date Time To: 👩 22.04.2010 💌 — 10:33	8:54 🙀 Get Log
04/2010 17:11:03 SYSTEM BOOT (04/2010 12:03:04 ENGINEER MODE ENABLED (04/2010 16:55:16 ENGINEER MODE DISABLED (04/2010 16:59:00 ENGINEER MODE DISABLED (04/2010 16:59:02 ENGINEER MODE DISABLED (04/2010 16:59:02 ENGINEER MODE ENABLED (04/2010 16:59:03 ENGINEER MODE ENABLED (04/2010 11:14:49 ENGINEER MODE ENABLED (04/2010 11:16:45:05 ENGINEER MODE ENABLED (04/2010 11:16:45 ENGINEER MODE ENABLED (04/2010 11:30:32 ENGINEER MODE ENABLED (04/2010 10:33:52 UNSET BY USER 513 Engineer		

To view events that occurred over specific time periods:

- 1. Enter the start date and time for the log in the From: Date & Time dropdown menu.
- 2. Enter the end time and date for the log in the To: Date & Time dropdown menu.
- 3. Click the button Get Log.
  - ⇒ The current system log of events will be downloaded from the panel.
  - ⇒ The system log of events between these time and dates will be listed in following order: Date, Time, Event and Description.

i

i

In order to avoid multiple events from the same source filling the log, the SPC system, in accordance with standards, permits the logging of only 3 activations of the same zone in one set period.

- Click the button Save Log to File to save the current event log to a file (e.g. "log.txt").
- ⇒ You can open this log file after disconnecting from the panel.

If you use SPC Pro to change the system language on the panel, the system log language will only update after you disconnect and reconnect to panel.

## 7.10 Access Log

The log provides all the access events of the SPC system.



 $\triangleright$  SPC Pro is connected to a panel.



In order to avoid multiple events from the same source filling the log, the SPC system in accordance with standards, permits the logging of only 3 activations of the same zone in the one set period.

- Click the Panel Access Log tab.
  - ⇒ The following window will be displayed:

Access Loc	1					
From : 🧧	Date 01.04.2010 🔽 —	Time 03:00:00	To: 👩	Date Ti 22.04.2010	me 0:40:16 ∓ 😪	
User : 🧯	Any User		Door : 🧧	Any Door	<b>•</b>	Get Access Log :
Time :	User :	Door:		Event :		
03/04/2010 17:1	1:03	1 Do	or 1	Door Release		
03/04/2010 17:1	1:03	2 Do	or 2	Door Release		
💾 Save L	og to File					

To view access events that occurred over specific time periods:

- 1. Enter the start date and time for the log in the From: Date & Time dropdown menu.
- 2. Enter the end date and time for the log in the To: Date & Time dropdown menu.
- 3. Enter the user name from the User dropdown menu.
- 4. Enter the door name from the Door dropdown menu.
- 5. Click the Get Access Log button.
  - ⇒ The current system log of access events will be downloaded from the panel.
  - ⇒ The system log of access events between these time and dates will be listed in following order: Date, Time, User, Door and Event.
- 6. Click the button Save Log to File to save the current event log to a file (e.g. .txt).
- ⇒ You can open this log file after disconnecting from the panel.

# 8 Users

The following table shows the maximum number of users, user profiles and user devices for the panel:

Maximum No.	SPC4xxx	SPC5xxx	SPC6xxx
Users	100	500	2500
User Profiles	100	100	100
User Profiles per User	5	5	5
PACE Devices	32	250	250
SMS IDs	32	50	100
Web Passwords	32	50	100
RF Fobs	32	50	100
MDT Devices	32	32	32

WARNING
 If upgrading from a firmware version prior to version 3.3, please note the following:

 The Engineer web password, if configured, is deleted and must be reentered after upgrade.
 All existing users will be assigned to new user profiles corresponding to their previous user access levels. If max. number of user profiles is exceeded, no profile is assigned (see User Profiles [→ 51]). Please review all user configuration after a firmware upgrade.
 The default Engineer ID is changed from 513 to 9999.

# 8.1 Adding / Editing a User

For general information on max. number of users and max. number of areas please refer to the Installation & Configuration Manual of the appropriate SPC control panel.



- 1. Click the tab All Users.
- 2. See table below for further information.

User	Name	Card Number	# Profile	Global	Date Limit	PACE	Wireless FOB
1	User 1	1	2			_	
2	Joe Smyth	0	1				
3	user 3	50	1				
4	User 4	0	1				
5	User 5	0	1				
6	user 6	0	1				
7	User 7	0	2				
8	TimP	0	1				

Add User	Click this button to add a user to the panel.
Engineer Configure	Click on this button if you wish to change the PIN and web password for Engineer access. See Configuring Engineer Settings $[\rightarrow 60]$ .

### Add user

- 1. Click the button Add User to add a new user –OR– Click on a user from the user list to edit the user.
- 2. Configure the fields as described in the table below.

🖣 Configure System User	
Configure User	
Edit user settings, pro	files, etc.
User : User Name : User PIN : User Language : Duress Enable : Date Limit :	7 User 7 Same as panel> Call Control Cont
✓ User Profiles :	
User Profile 1	2:Manager
User Profile 2	- •
User Profile 3	
User Profile 4	
User Profile 5	- 💽 🔍
Access Control :	
Card Number :	Enter card number.
Yoid Card	Check to temporarily disable this card.
Extended Time :	Extends door timers when this card is presented.
PIN Bypass :	Access a door without PIN on a door connected with PIN pad.
Priority : 🔽	Priority cards will give access when doors are offline.
Escort :	Card may allow other cards through doors requiring Escort.
	Hirst person to enter the area and the last person to leave.
X Delete	OK Cancel

User	Select a user ID from the available IDs on the system.
User Name	Enter a unique name for this user (max. 16 characters and case sensitive).
User PIN	Enter the user access PIN.
	<b>Note:</b> To comply with INCERT approvals, the user's PIN code must contain more than 4 digits.
Language	You can select a language other than the default panel language which will display the keypad menus in that language when you enter the PIN for this user. If the selected language is not available on the panel, the menus display in the panel default language. If SPC Pro is offline (not connected to the panel) a list of all possible panel
	languages is displayed. The actual languages available in the particular panel firmware are only displayed when SPC Pro is online (connected to the panel)
	In addition, when SPC Pro is offline, 'Custom' is displayed instead of the actual name of a custom language.
Duress Enable	Enable Duress for this user if required. The number of PINs allocated for duress (PI +1 or PIN+2) is set in System Options [ $\rightarrow$ 66].
	<b>Note:</b> Duress option only available on this screen if 'User Duress' is enabled for the system in System Options. If Duress is enabled for this user, then consecutive user PINs for other users (i.e. 2906, 2907) are not permitted, as entering this PIN from the keypad would activate a user duress event.

Date Limit	Click on the Enable check box to restrict this user's access to a time period within the specified dates.
User Profiles	Select user profiles to assign to this user from the dropdown lists.
Access Control	See table in following section.

#### **Access Control**

Attribute	Description
Card Number	Enter card number. Enter 0 to unassign this card.
Void Card	Check to temporarily disable this card.
Extended Time	Extend door timers when this card is present.
PIN bypass	Access a door without PIN on a door with PIN reader.
Priority	<ul> <li>Priority cards are stored locally in the door controllers and will grant access in case of a technical fault where the door controller cannot communicate with the control panel.</li> <li>The maximum number of priority users is:</li> <li>SPC4xxx – all users</li> <li>SPC5xxx – 512</li> <li>SPC6xxx - 512</li> </ul>
Escort	The escort feature enforces privileged card holders to escort other card holders through specific doors. If this feature is enabled on a door, a card with the "escort" right has to be presented first, to allow other cardholders without this right to open the door. The time period in which cardholders are able to present their cards after a card with escort right was presented, can be configured per door.
Custodian	The custodian feature enforces a card holder with custodian privilege to always be inside a room (door group) when other card holders are inside. The custodian must be the first to enter the room. Only if a custodian is in the room other cardholders are allowed to enter. The cardholder with the custodian right will not be allowed to exit until all non-custodian cards left the room.
	custodian attribute has to be the first who enters a door group which requires a custodian card holder and has to be the last that is leaving this door group.

#### See also

■ Configuring SMS [ $\rightarrow$  56]

# 8.2 Adding / Editing User Profiles

!	NOTICE
	Global user profiles cannot be edited in the browser or SPC Pro and must be edited in SPC Manager
	General



Setup Users

1. Click the tab Users Profiles.

⇒ A list of existing user profiles is displayed.

🧶 Intruder Set	tings - User	5		
General - Setu				
😰 All Users 🕻	) User Profile	s 🔲 User SMS 🔳 User Web Passwords		
		L. N.		
	<u>User Pr</u>	ofiles		
	ID	Drofile Name	Clobal	
	10	Standard user	Giùbai	
	2	Manager		
	2	limited user		
	4	Access Liser		
	5	Liser Profile 5		
	6	Liser Profile 6		
		- 14		
	, K	Add Profile		

2. Select Add Profile or click on a profile to edit.

Edit User Profile 2						
Edit the permissions, r	ights, areas for th	is profile				las - A
Use Panel Rights for this prof	User Profile ID : er Profile Name : Calendar : file :	2 Manager <no calendar=""></no>	Ţ <mark>:= Areas this</mark> p ♥ I [Area 1] - Re		to :	
V Partset A     Partset A     Partset B     Full Set     Restore     Inhibit     Vell Test     Vell Test     Vell Test     Vell Test     Vell Vell Vell     Vell	Users V Engineer V Upgrade V Web Access V X-10 V Force Set V SMS V Isolate V Delay Auto Set V Door Control Bypass Unset Del N/A V RF Control V Set Calendars	lay r]				
Set Doors  Access Control:  Site Code: 0		Site code	of all cards using this	user profile		
Door Number	Calendar	Assignment				
1 - Door 1	🍵 24 Hour					
2 - Door 2	🕘 24 Hour					
3 - Door 3	👌 24 Hour					
4 - Door 4	👌 24 Hour					
X Delete	View Profile Usage			0	K C	Iancel

#### **General Settings**

- 1. Enter a User Profile ID that is not currently being used. If you enter an ID that is already used, an 'ID Unavailable' message is displayed.
- 2. Provide a User Profile Name (maximum 16 characters and case sensitive).
- 3. Select all Areas that will be controlled by this user profile.
- 4. Select a Calendar to set the time limitations of this profile on the system.

#### **User/Panel Rights**

• Select the required user rights that are to be assigned to this user profile.

#### User rights

Right	User Profile Type Default	Description
User Rights - In	truder	
Fullset	Limited Standard Manager	The FULLSET operation fully sets the alarm system and provides full protection to a building (opening of any alarm zones activates the alarm). On selecting FULLSET, the buzzer sounds and the keypad display counts down the exit time period. Exit the building before this time period has expired. When the exit time period has expired, the system is set and opening of entry/exit zones starts the entry timer. If the system is not Unset before the entry timer
		expires, the alarm is activated.
Partset A	Standard Manager	The PARTSET A option provides perimeter protection to a building while allowing free movement through the access areas. Zones that have been classified as EXCLUDE A remain unprotected in this mode. By default, there is no
		exit time; the system sets instantly on selection of this mode. An exit timer can be applied to this mode by enabling the Partset A timed variable.
Partset B	Standard Manager	The PARTSET B option applies protection to all zones except those that have been classified as EXCLUDE B. By default there is no exit time; the system sets instantly on selection of this mode. An exit timer can be applied to this mode by enabling the Partset B timed variable.
Forceset	Standard Manager	The FORCESET option is presented on the keypad display when an attempt is made to set the system while an alarm zone is faulty or still open (the top line of the display shows the open zone). Selecting this option sets the alarm and inhibits the zone for that set period.
Unset	Limited Standard Manager	The UNSET operation unsets the alarm. This menu option is only presented on the keypad after an Entry/Exit zone has been activated and a valid user code has been entered.
Delay Auto Set	Standard* Manager	User can delay or cancel autosetting
Bypass Delay	Standard Manager	User can automatically override the Unset Delay. Only available for Financial installations. See Setting/Unsetting [→ 128]
Restore	Standard Manager	The RESTORE operation restores an alert condition on the system and clears the alert message associated

Right	User Profile Type Default	Description
		with that alert condition. An alert condition can only be cleared after the zone(s) or fault(s) that triggered the alert condition have been restored to their normal operating state and the CLEAR ALERT option in user programming is selected for that zone.
Inhibit	Standard Manager	Inhibiting a zone deactivates that zone for one alarm set period. This is the preferred method of deactivating a faulty or open zone as the fault or open condition is displayed on the keypad each time the system is being set to remind the user to attend to that zone.
Isolate	Standard* Manager	Isolating a zone deactivates that zone until such time as the zone is de-isolated. All zone types on the controller can be isolated. Use of this feature to deactivate faulty or open zones should be considered carefully; once a zone is isolated, it is ignored by the system and could be overlooked when setting the system in the future, compromising the security of the premises.
User Rights - S	ystem	
Web Access	Standard* Manager	User can access panel through web browser.
View Log	Standard Manager	This menu option displays the most recent event on the keypad display. The event log details the time and date of each logged event.
Users	Manager	User can create and edit other users on the panel but with only the same or less rights than this user.
SMS	Standard* Manager	This feature allows users to set up the SMS messaging service if a modem is installed on the system.
Set Date	Standard Manager	Use this menu option to program the time and date on the system. Ensure the time and date information is accurate; these fields are presented in the event log when reporting system events.
Change PIN	Standard Manager	This menu option allows users to change their user PINS. <b>Note:</b> To comply with INCERT approvals, the user's PIN code must contain more than 4 digits.
View Video/Video in Browser	Standard Manager	User can view video images via the web browser. Note: The Web Access right must also be enabled for this function.
Chime	Standard Manager	All zones that have the CHIME attribute set generate a short burst of audible tone on the keypad buzzer when they are opened (while the system is unset). This menu option allows for enabling or disabling of the chime feature on all zones.
Engineer	Manager	This option allows users to grant access to engineer programming. For Swiss CAT 1 and CAT 2 regional requirements, when Engineer Access is granted, all areas must be unset otherwise the engineer will be denied access.
Upgrade	Manager	User can grant manufacturer access to panel to perform firmware upgrade.
User Rights - C	ontrol	

Right	User Profile	Description
	Type Delaun	
Outputs	Standard Manager	User can activate/deactivate configured outputs (mapping gates). See Editing an Ouput [ $\rightarrow$ 85].
X-10	Standard Manager Access Control	User can activate/deactivate configured X-10 devices. <b>Note:</b> X-10 is in maintenance. The functionality remains in the system for backward compatibility.
Door Control	Standard* Manager Access Control	User can lock/unlock doors.
RF Control	Standard Manager Access Control	User can control RF output
User Rights - To	est	
Bell Test:	Standard Manager	User can perform a bell test to test the external bells, strobe, internal bells and buzzer to ensure their correct operation.
Walk Test	Standard Manager	User can perform a walk test to allow for testing of the operation of all alarm sensors on a system.
WPA Test	Standard Manager	User can test a WPA.
Seismic Test	Standard Manager	User can test the seismic detector.
User Rights – S	ervice Engineer	
Set Users (Master)		User can create and edit other users on the system with no restriction on user rights.
Set User Profiles		User can create and edit user profiles on the system.
Set Calendars		User can configure calendars.
Set Doors		User can edit doors.
* Functions not	enabled by default	for this user but can be selected.

#### Access Control

- 1. Enter **a Site Code**, if required, for all cards assigned to this user profile. Refer to the appendix section on Card Readers and Formats.
- 2. Select the Access rights of this user profile for the doors configured on the system. Options are:
  - No access
  - No time limit (i.e. 24 hour access)
  - Calendar (if configured)

#### Users

Click on the **View Profile Usage** button at the bottom of the dialog box to display a list of users that are assigned to this profile.

You can create a new user profile based on an existing profile by clicking **Replicate**. A new User Profile page is displayed.

#### See also

Adding / Editing User Profiles [→ 53]

Adding / Editing an area [ $\rightarrow$  122]

## 8.3 Configuring SMS

The SPC system allows remote (SMS) messaging on systems with installed modems.



- ▷ A modem is installed and identified by the system.
- $\triangleright$  The function SMS Authentication is activated. See page [ $\rightarrow$  66].
- 1. Select the User SMS tab.
  - ➡ The Engineer SMS ID and a list of user SMS IDs with corresponding SMS details are displayed.

Intruder Settings	Users						
eneral - Setup Use	ers						
All Licens 🖂 Licen	Profiles	ser SMS TRE Llos	Ninh Departmente				
🖌 All Users 📋 User	FPromes a c		r vveb Passvvords				
	Lloor SM	IC					
		10					
	SMS ID	User ID	User Name	SMS Number	Events Enabled	Control Enabled	
	1	2	Joe Smyth	8246319856	×	×	
	2	1	User 1	5236986	1		
	3	1	User 1	6265			
	9999	9999	Engineer	000000000	1	1	
	Č	Add SMS					

2. Click on the Add SMS button to add a new SMS ID or click on an SMS entry to edit it.

	SMS II	<b>D:</b> 4			
	Use	s <b>r:</b> 1:	User 1		*
SMS	5 Numbe	er:			<u></u>
SMS Events :			SMS	Control :	
Alarms :		3	15	FSET	3
Alarm Restores :		3		USET	ð
Confirmed Alarms :		3			ð
Faults :		3		BSET	6
Fault Restore :		3			3
Setting :		3		SSTA	3
Early / Late :		3		LOG	3
Inhibits :		3			3
Door Events :		3		MANA	3
Other :		3	25	0	3
				□ x	3

**3.** Configure the SMS details as follows:

SMS ID	System generated ID.
SMS Number	Enter the number to which the SMS will be sent (requires three-digit country code prefix). <b>Note:</b> Engineer SMS number can deleted by resetting it 0. User SMS numbers cannot be deleted.
User	Select a new user for this SMS ID if required.
SMS Events	Select the panel events which the user or engineer will receive via SMS.
SMS Control	Select the operations that the user or engineer can perform remotely on the panel through SMS. See SMS Commands $[\rightarrow 58]$

!	NOTICE
	HOLDUP alarm events are not transmitted via SMS.

If the phone line is connected to the PSTN network via a PBX, the appropriate line access digit should be inserted before the called party number. Ensure that Calling Line Identity (CLI) is enabled on the line selected to make the call to the SMS network. Consult the PBX administrator for details.

## 8.4 SMS Commands

When the SMS setup and configuration is complete, SMS features may be activated. Commands, depending on SMS configuration, are sent using a PIN or caller ID. The type of PIN depends on what is set for SMS Authentication.

The table below provides all available SMS commands. Subsequent action and response are also provided.

SMS Commands are sent as texts to the phone number of the SIM card on the controller.

For commands using a PIN, the format of the text is:

\*\*\*\*.command or \*\*\*\* command

where \*\*\*\* is the PIN and "command" is the command i.e. the PIN followed by either a space or a full stop. For example, the command "FSET" is entered as: \*\*\*\* FSET or \*\*\*\*.FSET. The full version of the command, where listed, can also be used. For example, \*\*\*\*.FULLSET.

If the user does not have sufficient rights to perform a command, the system returns ACCESS DENIED.

If Caller ID is enabled, and the sender's SMS number is configured, the PIN prefix is not required.

COMMANDS (**** = code)						
Using Code	Using Caller ID	Action	Response			
**** HELP ****.HELP	HELP	All available commands displayed	All available commands			
**** FSET ****.FSET ****. FULLSET	FSET FULLSET	Sets all areas the user has access to.	Time/date of system set. If applicable, responds with open zones/force set zones			
**** USET ****.USET ****. UNSET	USET UNSET	Unsets all areas the user has access to.	System Unset			
**** SSTA ****.SSTA ****. STATUS	SSTA STATUS	Retrieves the status of areas.	<ul> <li>Status of system and applicable areas</li> <li>For a single area system, system and mode are returned, where mode is the set status of the system</li> <li>For a multi-area system, the status of each area is returned.</li> </ul>			
**** XA1.ON (X10) ****.XA1.ON		Where X10 device is identified as "A1", it is triggered on.	Status of "A1"			
**** XA1.OFF ****.XA1.OFF		Where X10 device is identified as "A1", it is triggered off.	Status of "A1"			
**** LOG ****.LOG		Up to 10 recent events displayed	Recent events			
**** ENGA.ON	ENGA.ON	Enable Engineer access	Allow Engineer			

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(ALLOW ENGINEER) ****.ENGA.ON			
**** ENGA.OFF ****.ENGA.OFF	ENGA.OFF	Disable Engineer access	Revoke Engineer
**** MANA.ON ****.MANA.ON		Enable Manufacturer access	Manufacturer status
**** MANA.OFF ****.MANA.OFF		Disable Manufacturer access	Manufacturer status
**** 05.0N ****.05.0N ****. OUTPUT		Where mapping gate is identified as "O5", it is triggered on.	<ul> <li>Status of "O5"</li> <li>For example:</li> <li>Output O5 on.</li> <li>Output heating on (where heating is the name of the output.)</li> </ul>
**** 05.0FF ****.05.0FF		Where mapping gate is identified as "O5", it is triggered off	Status of "O5" For example: Output O5 off
****.ASET (PARTSET A)		Allows Partset A of alarm by SMS It is also possible to specify the custom name defined in the PARTSET rename field of the Options window. See Options [→ 66]	System set.
****.BSET PARTSET B)		Allows Partset B of alarm by SMS It is also possible to specify the custom name defined in the PARTSET rename field of the Options window. See Options [ $\rightarrow$ 66] For example: *****.ASET NIGHT	System set.
****.CLR ****. RESTORE		Allows clear alerts by SMS	



For SMS recognition, mapping gate identification uses the format ONNN, where O stands for mapping gate, and NNN are the numeric placeholders, of which not all are necessary.

(Example: O5 for mapping gate 5)

For SMS recognition, X-10 device uses the format: XYNN, where X stands for X-10; Y stands for the alphabetic identity and NN are the available numeric placeholders. (Example: XA1)

The SMS operates using a standard protocol that is used in SMS telephones. Please note that some PSTN operators do not provide the service of SMS over PSTN. For SMS to operate over PSTN, the following criteria are required:

- Caller ID needs to be enabled on the telephone line.
- Direct telephone line not through PABX or other communications equipment.
- Please also note that most Service Providers only allow SMS to a telephone registered in the same country. (This is due to billing issues)

## 8.5 Deleting Web Passwords

This screen lists the engineer and any user and Engineer password that has been created for accessing the Web browser.



- 1. Select the User Web Passwords tab.
- 2. Click the button Engineer Configure.

eneral - Setup User	's				) 🗿 😨 🐷 🔤
ይ 🛛 All Users 🛛 🛅 User P	Profiles 🔲 User SN	AS 🔋 User Web Passwords		-	
	User We	b Passwords			
	User ID	User Name			
	1	User 1			
	9999	Engineer			
	X Dele	te Web Password			

3. Click on the **Delete Web Password** button beside the Engineer or user to delete the password.

### 8.6 Configuring Engineer Settings

General	Ē.
	Setup Users

- 1. Select the All Users tab.
- 2. Click the Engineer Configure button.

Sonngaro Engineo	a bottings for	panem		
	User ID :	9999		
i i i	Jser Name :	Engineer		
	User PIN :	001111		
Web	Password :	*******		
User	Language :	English		-
Access Control :	0		Enter card nu	mher
Void Card : Extended time :	Check to te	emporarily disable	this card.	nted.
PIN Bypass :	Access a de	oor without PIN o	n a door conne	cted with PIN pad.
Priority :	Priority car	ds will give acces	s when doors a	re offline.
Escort :	Card may a	allow other cards	through doors r	equiring Escort.
custodian :	First person	n to enter the are	ea and the last p	person to leave.

- 3. Edit the 'Engineer' User Name if required.
- 4. Edit the User PIN for the Engineer user.

The minimum number of digits required for this code depends on the security setting of the system or on the selected length of the **PIN Digits** in the menu **Panel Settings > System Settings > Options**.

 Change the Web Password for accessing the Web browser (alphabetic characters A-Z, numeric digits 0-9). This password is case sensitive – ensure that you enter the correct upper or lower case alphabetic characters in your new password

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The new PIN and password will only operate when the configuration file has been sent to the panel.

6. Click OK.

#### **Access Control**

Attribute	Description
Card Number	Enter card number. Enter 0 to unassign this card.
Void Card	Check to temporarily disable this card.
Extended Time	Extend door timers when this card is present.

Attribute	Description
PIN bypass	Access a door without PIN on a door with PIN reader.
Priority	<ul> <li>Priority cards are stored locally in the door controllers and will grant access in case of a technical fault where the door controller cannot communicate with the control panel.</li> <li>The maximum number of priority users is:</li> <li>SPC4xxx - all users</li> <li>SPC5xxx - 512</li> <li>SPC6xxx - 512</li> </ul>
Escort	The escort feature enforces privileged card holders to escort other card holders through specific doors. If this feature is enabled on a door, a card with the "escort" right has to be presented first, to allow other cardholders without this right to open the door. The time period in which cardholders are able to present their cards after a card with escort right was presented, can be configured per door.
Custodian	The custodian feature enforces a card holder with custodian privilege to always be inside a room (door group) when other card holders are inside. The custodian must be the first to enter the room. Only if a custodian is in the room other cardholders are allowed to enter. The cardholder with the custodian right will not be allowed to exit until all non-custodian cards left the room. Identifies this card holder as a custodian. The user with the custodian attribute has to be the first who enters a door group which requires a custodian card holder and has to be

# 9 Changing system settings

## 9.1 Identification

Panel Settings



1. Select the tab Identification.

 $\Rightarrow$  The following window will be displayed.

2. Configure the fields as described in the table below.

🛫 Identification   👻 Standards   🖅 Options   🅑 Timers   🕢 Clock   📆 Language   🚰 SPC Pro/SPC Safe				
System Identification				
Option	Value	Description		
Installation ID	5	Numeric identification of this installation, this is used in all reporting to uniquely identify this installation ( 1-999999 )		
Installation Name	Installation 3	Description of this installation		
Installation Date	01.01.2000			
Installer Name		Name of installer for support purposes		
Installer Phone		Phone number of installer for support purposes		
Display Installer		Check this setting if the installer details are to be displayed on keypads		
Engineer Lock		If checked the Engineer lock PIN code is required to factory default the panel		
Engineer Lock PIN		Four digit engineer lock code.		

Installation ID	Enter a unique number for each installation This number identifies the installation (1 – 999999).
Installation Name	Enter the name of the installation. An installation name must be entered before the installation is saved on the system. The installation can be viewed from the keypad.
Installation Date	Select the date from the dropdown menu that the installation was completed.
Installer Name	Enter the name of the person who installed the system (for support purposes).
Installer Phone	Enter the contact phone number of the person who installed the system (for support purposes).
Display Installer	Tick this box to display the installation details on the keypad connected to the panel when in the idle condition.
Engineer Lock	Tick this box to require use of the engineer lock PIN to factory default the panel.
Engineer Lock PIN	Enter value for lock PIN (4 digits).

### 9.2 Standards



All alarm systems must comply with defined security standards. Each standard has specific security requirements that apply to the market/country in which the alarm system is installed.



- Select the tab **Standards**.
  - ⇒ The following window will be displayed.

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It is not possible to edit the Region or Grade in SPC Pro.

lentification 🔮 Star	dards 👩 Options	🍈 Timers 🧕 Clock 🖱 Language 🎬 SPC Pro/SPC Safe 🔮 SPC Manager
	ndard Comp	lianco Sottings
312	inuaru comp	naite setting
	Installation T	ype :
		ODomestic
		() Commercial
		○ Financial
	Region :	
		Select for compliance to UK requirements
		Select for compliance to Irish requirements
		Select for compliance to European requirements
		O Select for compliance to Swedish requirements
		◯ Select for compliance to Belgium (*) requirements
		○ Select for compliance to Swiss (*) requirements
	6	(*) Select for compliance to Spanish requirements
		() (*) Select for compliance to German requirements
		$\bigcirc$ (*) Select for compliance to French requirements
	Grade :	
		○ VDS Class A ( )
		VDS Class C ( )
		O Select for Uprestricted

(\*) Selecting this regional standard will implement local or national requirements which supercede EN50131 requirements.

Installation Type	Select the type of installation. Options are Domestic, Commercial or Financial.		
Region	To change the region on your panel, it is strongly recommended that you default your panel and select a new region as part of the start up wizard. Select the region in which the installation is installed and the regional requirements it complies with. Options are UK, Ireland, Sweden, Europe, Switzerland, Belgium (INCERT), Spain, and Germany (VDS).		
Grade	Select the Security Grade that applies to the installation.		
	<ul> <li>Irish and European Regions:</li> </ul>		
	– EN50131 Grade 2		
	– EN50131 Grade 3		
	– Unrestricted		
	UK Region:		
	<ul> <li>PD6662 (EN50131 Grade 2 based)</li> </ul>		
	<ul> <li>PD6662 (EN50131 Grade 3 based)</li> </ul>		
	– Unrestricted		
	Swedish Region:		
	<ul> <li>SSF1014:3 Larmclass 1</li> </ul>		
	<ul> <li>SSF1014:3 Larmclass 2</li> </ul>		
	– Unrestricted		
	Belgium Region:		
	<ul> <li>TO-14 (EN50131 Grade 2 based)</li> </ul>		
	<ul> <li>TO-14 (EN50131 Grade 3 based)</li> </ul>		
	– Unrestricted		
	Switzerland Region:		
	– SES EN-CH-Grad 2		
	– SES EN-CH-Grad 3		
	– Unrestricted		
	Spanish Region		
	– EN50131 Grade 2		
	– EN50131 Grade 3		
	German Region		
	<ul> <li>VdS Class A</li> </ul>		
	– VdS Class C		
	– Unrestricted		
	France		
	– NF&A2P - Grade 2		
	– NF&A2P - Grade 3		
	– Unrestricted		

#### **Unrestricted Grade**

A Security Grade setting of **Unrestricted** does not apply to any regionally approved security restrictions of the installation. Instead, the Unrestricted setting enables an engineer to customize the installation by changing security policy options and configuring additional options which do not comply with the selected regional security compliance.

Unrestricted configuration options are denoted in this document by the following

symbol:

See System Options [ $\rightarrow$  208] for details of configuring system policies.

### 9.2.1 Installation type

The installation type determines the type of zones that can be programmed on the panel and the features that will be presented.

You can choose between the following installation types:

- **Domestic**: Suitable for residential installations with one or more areas and a small-to-moderate number of alarm zones. Appropriate Input and Output functions are available for the system configuration.
- **Commercial**: Suitable for business installations with multiple areas and a large number of alarm zones. Extended Input and Output functions such as calendar and autosetting are available.
- Financial: Suitable for banks and other financial institutions with vault and ATM environments.

## 9.3 Options



- 1. Select the tab **Options**.
- 2. Configure the fields as described in the table below.

	Identification  Control  Con	anel Settings - System	Settings		
Ventification   Ventification Standards Ventification   System Options     Value Description     Areas If checked the system enables multiple areas.   Bell on First If checked the ext and int. bell/strobe outputs activate on unconfirmed alarm.   Bell Retrigger If checked the else will resound if a second Zone activation is detected.   Bell on First If checked the else will resound if a second Zone activation is detected.   Bell on Fail to Set If checked the else will will resound if a second Zone activation is detected.   Bell on Fail to Set If checked the else will will resound if a second Zone activation is detected.   Bell on Fail to Set If checked the enternal bell/strobe will activate when system fails to set.   Strobe on Fail to Set If checked a second Unset triggered through a keyfob will restore alerts.   Partset A rename Partset A   Change the Partset A name.   Partset B Change the Partset A name.   Partset B Change the Partset B name.   PIN Digits 5   Call ARC Message Line 1   Call ARC Message Line 2   ARC message in line 1 of diplay (16 chars)   Alvo Restore   If checked alerts will auto restore after sensor reset, if not checked then alerts required   Alvo Restore   If checked alerts will auto restore after sensor reset, if not checked then alerts required   Alvo Restore   If che	Ventification   Ventification Value   System Options     Value     If checked the system enables multiple areas.   Bell on First     Bell no First     If checked the ext and int. bel/strobe outputs activate on unconfirmed alarm.   Bell Retrigger   If checked the ext and int. bel/strobe outputs activate on unconfirmed alarm.   Bell Retrigger   If checked the ext and int. bel/strobe outputs activate on unconfirmed alarm.   Bell Retrigger   If checked the ext and int. bel/strobe outputs activate on unconfirmed alarm.   Bell Retrigger   Bell on Fial to Set     If checked the ext and int. bel/strobe outputs activate on unconfirmed alarm.   Bell Retrigger   If checked the ext and int. bel/strobe outputs activate on unconfirmed alarm.   Bell Retrigger   Bell on Fail to Set     If checked the ext and int. bel/strobe outputs activate on unconfirmed alarm.   Bell Retrigger   If checked the ext and int. bel/strobe outputs activate on unconfirmed alarm.   Bell Retrigger   Bell on Fail to Set   If checked the ext and int. bel/strobe outputs activate on unconfirmed alarm.   Bell Retrigger   Partset 8   Change the Partset 8   Change the Partset 8   Call ACK Message   Call ACK Message   Call ACK Message Line 2   ARC message in line 2 of display (16 chars)   Call ACK Message Line 2   ARC message in line 2 of display (16 chars)   All ACK Message Line 2   ARC message in line 2				
System Options         Value         Description           Areas         ✓         If checked the system enables multiple areas.           Bell on First          If checked the ext. and int. bell/strobe outputs activate on unconfirmed alarm.           Bell on First          If checked the bells will resound if a second Zone activation is detected.           Bell on Fait to Set          If checked the bells will activate when system fails to set.           Stobe on Fait to Set          If checked the external bell/strobe will activate when system fails to set.           Stobe on Fait to Set          If checked the external bell/strobe will activate when system fails to set.           Stobe on Fait to Set          If checked the external bell/strobe will activate when system fails to set.           Partset A rename         Partset A         Change the Partset B name.           Partset B rename         Partset B         Change the Partset B name.           PIN Digits         5         Number of digits in user PINs.           Call ARC Message Line 1         CALL ARC/CMS         ARC message in line 2 of display (16 chars)           Alkay Show State           If checked the eating status is always displayed on the keypad.           Show Open Zones           If checked alerts will auto restore after sensor reset, if not	System Options         Value         Description           Areas         If checked the system enables multiple areas.         If checked the system enables multiple areas.           Bell on First         If checked the ext. and int. bell/strobe outputs activate on unconfirmed alarm.           Bell Retrigger         If checked the bells will resound if a second Zone activation is detected.           Bell on Fail to Set         If checked the external bell/strobe will activate when system fails to set.           Strobe on Fail to Set         If checked the external bell/strobe will activate when system fails to set.           Keyfob Restore         If checked the external bell/strobe will activate when system fails to set.           Partset A rename         Partset A           Change the Partset B name.         Partset B           PIN Digits         S           All ARC Message         Enable to display a message when panel contacts the Alarm Reporting Centre           Call ARC Message Line 1         CALL ARC/CMS         ARC message in line 1 of display (16 chars)           Always Show State         If checked the setting status is always displayed on the keypad.           Show Open Zones         If checked a user must grant engineer access.           Alto Restore         If checked a user must grant engineer access.           Alto Restore         If checked a user must grant engineer access.           Alto Re	💈 Identification 📗 💆 Standar	ds 🦢 Options 👩 Time	rs 🕘 Clock 🗑 Language 🎇 SPC Pro/SPC Safe	
System Options           Options         Value         Description           Areas         If checked the system enables multiple areas.         Bell on First         If checked the ext. and int. bell/strobe outputs activate on unconfirmed alarm.           Bell on First         If checked the bells will resound if a second Zone activation is detected.           Bell on Fail to Set         If checked the internal bells will activate when system fails to set.           Strobe on Fail to Set         If checked the external bell/strobe will activate when system fails to set.           Strobe on Fail to Set         If checked the external bell/strobe will activate when system fails to set.           Keyfob Restore         If checked a second Unset triggered through a keyfob will restore alerts.           Partset A rename         Partset B         Change the Partset B name.           PIN Digits         5         Number of digits in user PINs.           Call ARC Message Line 1         CALL ARC/CMS         ARC message in line 1 of display (16 chars)           Always Show State         If checked the setting status is always displayed on the keypad.           Show Open Zones         If checked alerts will auto restore after sensor reset, if not checked then alerts required           Alto Restore         If checked alerts will auto restore after sensor reset.           Alto Restore         If checked alerts will auto areator as setting and manufacturer <th>System Options           Options         Value         Description           Areas         If checked the system enables multiple areas.           Bell on First         If checked the ext. and int. bell/strobe outputs activate on unconfirmed alarm.           Bell Retrigger         If checked the internal bells will resound if a second Zone activation is detected.           Bell on Fial to Set         If checked the internal bell will activate when system fails to set.           Strobe on Fail to Set         If checked the external bell/strobe will activate when system fails to set.           Keyfob Restore         If checked the external bell/strobe will activate when system fails to set.           Reyfob Restore         If checked the external bell/strobe will activate when system fails to set.           Partset A rename         Partset A           Change the Partset B rename         Partset B           Partset B rename         Partset B           Call ARC Message         Enable to display a message when panel contacts the Alarm Reporting Centre           Call ARC Message Line 1         CALL ARC/CMS           Call ARC Message Line 2         ARC message in line 1 of display (16 chars)           Always Show State         If checked the setting status is always displayed on the keypad.           Show Open Zones         If checked a user must grant manufacturer access.           Always Show State</th> <th></th> <th></th> <th></th> <th></th>	System Options           Options         Value         Description           Areas         If checked the system enables multiple areas.           Bell on First         If checked the ext. and int. bell/strobe outputs activate on unconfirmed alarm.           Bell Retrigger         If checked the internal bells will resound if a second Zone activation is detected.           Bell on Fial to Set         If checked the internal bell will activate when system fails to set.           Strobe on Fail to Set         If checked the external bell/strobe will activate when system fails to set.           Keyfob Restore         If checked the external bell/strobe will activate when system fails to set.           Reyfob Restore         If checked the external bell/strobe will activate when system fails to set.           Partset A rename         Partset A           Change the Partset B rename         Partset B           Partset B rename         Partset B           Call ARC Message         Enable to display a message when panel contacts the Alarm Reporting Centre           Call ARC Message Line 1         CALL ARC/CMS           Call ARC Message Line 2         ARC message in line 1 of display (16 chars)           Always Show State         If checked the setting status is always displayed on the keypad.           Show Open Zones         If checked a user must grant manufacturer access.           Always Show State				
Options         Value         Description           Areas         If checked the system enables multiple areas.         If checked the system enables multiple areas.           Bell on First         If checked the ext. and int. bell/strobe outputs activate on unconfirmed alarm.           Bell Retrigger         If checked the bells will resound if a second Zone activation is detected.           Bell No Fail to Set         If checked the internal bells will activate when system fails to set.           Strobe on Fail to Set         If checked the external bell/strobe will activate when system fails to set.           Strobe on Fail to Set         If checked a second Unset triggered through a keyfob will restore alerts.           Partset B rename         Partset B         Change the Partset B name.           PIN Digits         5         Number of digits in user PINs.           Call ARC Message Line 1         CALL ARC/CMS         ARC message in line 1 of display (16 chars)           Always Show State         If checked alerts will auto restore after sensor reset, if not checked the nalerts requiree           Always Show State         If checked alerts will auto clear 30 secs after Unset.           Allow Restore         If checked alerts will auto clear 30 secs after Unset.           Always Show State         If checked alerts will auto clear 30 secs after Unset.           Always Show Open Zones         If checked alerts will auto clear 30 secs after Unset.	Options         Value         Description           Areas         If checked the system enables multiple areas.           Bell on First         If checked the system enables multiple areas.           Bell Retrigger         If checked the bells will resound if a second Zone activation is detected.           Bell Retrigger         If checked the internal bells will activate when system fails to set.           Strobe on Fail to Set         If checked the external bell/strobe will activate when system fails to set.           Keyfob Restore         If checked a second Unset triggered through a keyfob will restore alerts.           Partset B rename         Partset A           Change the Partset A name.         Partset B           Partset B rename         Partset B           Change the Partset B name.         Partset B           PIN Digits         5           Call ARC Message Line 1         CALL ARC/CMS           Call ARC Message Line 2         ARC message in line 1 of display (16 chars)           Call ARC Message Line 2         If checked the setting status is always displayed on the keypad.           Show Open Zones         If checked a user must grant tengineer access.           Always Show State         If checked a user must grant tengineer access.           Allow Restore         If checked a user must grant tengineer access.           Allow Restore         <	System Options			
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PIN Digits       5       Number of digits in user PINs.         Call ARC Message       Enable to display a message when panel contacts the Alarm Reporting Centre         Call ARC Message Line 1       CALL ARC/CMS       ARC message in line 1 of display (16 chars)         Call ARC Message Line 2       ARC message in line 2 of display (16 chars)         Always Show State       If checked the setting status is always displayed on the keypad.         Show Open Zones       If checked then open zones will be displayed on keypad in Unset mode.         Confirmation       D0243       Sequential confirmation mode         Aluo Restore       If checked alerts will auto restore after sensor reset, if not checked then alerts require         Allow Hanufacturer       If checked a user must grant engineer access.         Allow Manufacturer       If checked auser must grant manufacturer access.         PACE and PIN       If checked alerts will auto clear 30 secs after Unset.         Offline Tamper       If checked apards rowers in firsh + 1' or PIN + 2' is entered on keypad         Duress       Disabled       Report user duress if 'PIN + 1' or PIN + 2' is entered on keypad         SMS Authentication       Pin and Caller ID       Autonitication of received SMS control commands.         Engineer Restore       If checked engineer is required to restore zones after confirmed alarm.	PIN Digits       5       Number of digits in user PINs.         Call ARC Message	Partset B rename	Partset B	Change the Partset B name.	
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Confirmation         DD243         Sequential confirmation mode           Auto Restore         If checked alerts will auto restore after sensor reset, if not checked then alerts require           Allow Hangineer         If checked alerts will auto restore after sensor reset, if not checked then alerts require           Allow Manufacturer         If checked a user must grant manufacturer access.           PACE and PIN         If checked a user must grant manufacturer access.           PACE and PIN         If checked alerts will auto clear 30 secs after Unset.           Offline Tamper         If checked expander zones that goes offline will generate a zone tamper.           Duress         Disabled         Report user duress if 'PIN + 1' or PIN + 2' is entered on keypad           SMS Authentication         Pin and Caller ID         Authentication of received SMS control commands.           Engineer Restore         If checked degineer is required is restore zones after confirmed alarm.	Confirmation         DD243         Sequential confirmation mode           Auto Restore         If checked alerts will auto restore after sensor reset, if not checked then alerts requi           Allow Engineer         If checked a user must grant engineer access.           Allow Manufacturer         If checked a user must grant manufacturer access.           PACE and PIN         If checked a user must grant manufacturer access.           PACE and PIN         If checked alerts will auto clear 30 secs after Unset.           Offline Tamper         If checked expander zones that goes offline will generate a zone tamper.           Duress         Disabled         Report user duress if 'PIN + 1' or PIN + 2' is entered on keypad           SMS Authentication         Pin and Caller ID         Authentication of received SMS control commands.	Show Open Zones		If checked then open zones will be displayed on keypad in Unset mode.	
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		Engineer Restore		If checked Engineer is required to restore zones after confirmed alarm.	

#### System Options

# i

The options displayed vary depending on the Security Grade of the system.

Restriction	System Option	Description
General Settings		

Restriction	System Option	Description
	Areas	Select to enable multiple areas on the system. <b>Note:</b> This option is displayed for the Domestic and Commercial installation types, only.
	Code Restore	Grade 3 only: A user, who does not have the right to restore an alarm, is able to restore the alarm with this feature. On resetting an alarm, a 6 digit code is required. The user must call the installer to generate a restore code, with which the user is able to restore the alarm.
	Offline Tamper	Enable this for offline expander zones to generate a zone tamper.
	Keyfob Restore	If enabled, key fob is enabled to restore alerts by pressing the Unset key.
Web and SPC Pro Only	Audio Expander LED	If enabled, audio expander will not turn on LED when microphone active.
	Report in Eng mode	If enabled, the panel will always report alarm activations and panic alarms.
	Outputs in Eng Mode	If selected, the following are not deactivated in Full Engineer mode: • Controller outputs • Expander outputs • Indicator LEDs • Keyswitch LEDs
	Alarm on Reporting Fail	If a 'Fail to Communicate' alert is raised, external bells will activate.
	Retrigger Duress	If enabled, duress alarm will retrigger.
	Retrigger Panic	If enabled, panic alarm will retrigger.
	Override Reader Profile	If enabled, the LED behavior of readers will be controlled by the panel.
	Silence Audio Verification	If enabled, then the internal and external bells (system and area), the keypad buzzers and annunciation messages on the Comfort Keypad will be silenced during audio verification.
	Watchdog Output Mode	<ul> <li>Enables output 6 on the SPC controller board to be used for monitoring purposes. The following modes of operation of the watchdog output can be selected:</li> <li>Disable — Output 6 is available as a general purpose output.</li> <li>Enabled — Output 6 is normally OFF but is turned ON when a watchdog fault occurs.</li> <li>Pulsed — Output 6 is PULSED at 100ms intervals.</li> <li>Enabled Inverted — Output 6 is normally ON but is turned OFF when a watchdog fault occurs.</li> <li>The following options combine the Enabled option with hardware-fault reporting in the event of a main microprocessor failure. If such a failure occurs, a SIA event is sent to ARC1.</li> <li>Note: The ARC must be configured to use SIA and SIA Extended 1 or 2. CID and FF are not supported by this reporting method.</li> <li>Enabled + Reporting (10s) — The failure event is sent to ARC1 10 seconds after the fault is detected. This option must be used to comply with VdS 2252.</li> <li>Enabled +Reporting (60s) — The failure event is sent to ARC1 60 seconds after the fault is detected.</li> </ul>

Restriction	System Option	Description
		The SIA event reported is <b>HF</b> and Extended SIA reports <b>Hardware Fault</b> .
		<b>Note:</b> Hardware faults are not reported if the Engineer is logged in to the system.
		For more information on ARCs, see Alarm Reporting Centres (ARCs) [ $\rightarrow$ 155].
	SPCP355	Enable VDS power supply.
		For VdS installations, this option is automatically selected.
	Bell on Fail to Set (FTS)	Enable to activate the internal bell if the system fails to set.
	Strobe on Fail to Set (FTS)	Enable to activate the strobe if the system fails to set.
	Hide bypass	If enabled, the bypass messages will no longer be displayed on keypad.
	Battery capacity	Total batteries capacity in AH, for panel only (3 - 100 Ah). You must enter this value and <b>Max current</b> value to view the remaining battery time on the keypad in the event of mains failure. This is indicated under the STATUS - BATTERY - BATT TIME menu.
	Max current	The total current draw from batteries when mains fail occurs (30 - 20000 mA). You must enter this value and the <b>Battery capacity</b> value to view the remaining battery time on the keypad in the event of mains failure. This is indicated under the STATUS - BATTERY - BATT TIME menu.
Partset		
	Partset A Rename	Enter a new name for your PARTSET A mode (e.g. Night Mode).
	Partset B Rename	Enter a new name for your PARTSET B mode (e.g. Floor 1 only).
Alarm		
	Bell on First	Enable to activate relevant bells/sirens on an unconfirmed alarm. When this option is disabled, the relevant bells/sirens will only activate on a confirmed alarm or if the detector that caused the unconfirmed alarm is reactivated.
	Bell Retrigger	Enable to resound bells/sirens if a second zone activation is detected (after the bell time has elapsed). If not checked then the external bells will only trigger once.
U Wah Only	Alert Forbid Set	If enabled, a user cannot set an area if there is an area or system alert present on the system.
Web Only		<b>Note:</b> This option is only available when the <b>Standards -&gt;</b> <b>Region</b> selected is Switzerland or <b>Security Grade</b> selected is 'Unrestricted'.
	Restore on Unset	Enable for alerts to auto clear after 30 seconds in Unset mode.
		<b>Note:</b> To comply with PD6662, you must disable this option.
<u>ال</u>	Antimask Set	Select the type of event reported resulting from antimask detection when panel is Set. Options are Disabled, Tamper, Trouble or Alarm.
		The option can only be configured when the panel is in 'Unrestricted' mode. In Grade 2 or 3 mode, the type of event reported is in accordance with the standards for the

Restriction	System Option	Description
		selected region:
		<ul> <li>Ireland - Alarm</li> </ul>
		All other regions - Alarm
<b>U</b>	Antimask Unset	Select the type of event reported resulting from antimask detection when panel is Unset. Options are Disabled, Tamper, Trouble or Alarm.
		The option can only be configured when the panel is in 'Unrestricted' mode. In Grade 2 or 3 mode, the type of event reported is in accordance with the standards for the selected region:
		<ul> <li>Ireland - Disabled</li> </ul>
		All other regions - Tamper
<b>b</b>	Out of bounds EOL unset	Select the type of event reported resulting from Out of Bounds EOL detection when the panel is unset. Options are: Disabled, Tamper and Trouble.
		The option can only be configured when the panel is in 'Unrestricted' mode. In Grade 2 or 3 mode, the type of event reported is in accordance with the standards for the selected region:
		<ul> <li>Germany VDS – Tamper</li> </ul>
		All other regions - Trouble
4	Out of bounds EOL set	Select the type of event reported resulting from Out of Bounds EOL detection when the panel is set. Options are: Disabled, Tamper and Trouble.
		The option can only be configured when the panel is in 'Unrestricted' mode. In Grade 2 or 3 mode, the type of event reported is in accordance with the standards for the selected region:
		<ul> <li>Germany VDS – Tamper</li> </ul>
		All other regions – Trouble
<b>U</b>	Zone Unstable unset	Select the type of event reported resulting from Zone Unstable detection when the panel is unset. Options are: Disabled, Tamper and Trouble.
		A zone is unstable if a valid sample cannot be obtained within 10 seconds.
		The option can only be configured when the panel is in 'Unrestricted' mode. In Grade 2 or 3 mode, the type of event reported is in accordance with the standards for the selected region:
		Germany VDS – Tamper
		<ul> <li>All other regions – Trouble</li> </ul>
٩	Zone Unstable set	Select the type of event reported resulting from Zone Unstable detection when the panel is set. Options are: Disabled, Tamper and Trouble.
		A zone is unstable if a valid sample cannot be obtained within 10 seconds.
		The option can only be configured when the panel is in 'Unrestricted' mode. In Grade 2 or 3 mode, the type of event reported is in accordance with the standards for the selected region:
		Germany VDS – Tamper
		All other regions – Trouble
٩	EOL Wide	If enabled, EOL wide bands are used.
	Suspicion Audible	If enabled then WPA Suspicion alerts have audible and visible indicators on the keypad. (Financial mode only).
Pro	End Of Line	Select the End Of Line termination resistors that will apply

Restriction	System Option	Description
	(EOL RESISTANCE)	to either all zones on the system or new zones added to the system. Select a value to enable the appropriate feature. To apply a new EOL setting to all existing zones, select the Lindate all zones checkbox. If you change the End of
		Line value but do not select this checkbox, the new setting applies only to zones added after changing the value.
	Seismic Test on Set	If enabled, all seismic sensors in any area that is being set will be tested before area or system set. (Financial mode only).
٩	Auto Restore	Enable this feature to automatically restore alerts on the system i.e. when the open zone that triggered an alarm is closed, a manual restore operation on the keypad/browser is not required. If disabled it prevents the user from restoring alerts by resetting the input that triggered the alert.
4	Alarm on Exit	<b>Enabled:</b> If a non-entry/exit zone is activated during the exit timer countdown, a local alarm is raised by sounding the bells.
		exit timer countdown, an alarm is not raised.
		<b>Note:</b> This option only displays when the <b>Unrestricted</b> grade is selected as enabling it is not in accordance with EN50131. When you choose the Swiss or Belgium <b>Region</b> under <b>Standard Compliance Settings</b> , this option is automatically enabled but it is not visible under <b>Options</b> .
٩	Alarm on Entry	<b>Enabled:</b> If a non-entry/exit zone is activated during the entry timer countdown, a local alarm is raised by sounding the bells.
		<b>Disabled:</b> If a non-entry/exit zone is activated during the entry timer countdown, an alarm is not raised.
		<b>Note:</b> This option only displays when the <b>Unrestricted</b> grade is selected as enabling it is not in accordance with EN50131. When you choose the Swiss <b>Region</b> under <b>Standard Compliance Settings</b> , this option is automatically enabled but it is not visible under <b>Options</b> .
Confirmation		
	Confirmation	<ul> <li>The Confirmation variable determines when an alarm is deemed to be a confirmed alarm.</li> <li>BS8243: <ul> <li>This will enforce compliance with the UK Police requirements, and is a specific requirement for UK Commercial installations. The requirement stipulates that an alarm will only be deemed to be a confirmed alarm if it meets the following condition:</li> <li>After an initial zone alarm has been activated and before the alarm confirmation time has expired, a second zone alarm is activated. The alarm confirmation time must be between 30 and 60 minutes. (See Timers [→ 74])</li> <li>If a second zone alarm is not activated within the Alarm confirmation time, then the first zone alarm will be inhibited. The BS8243 confirmation option is automatically set whenever the Standards -&gt; Region option is set to UK.</li> </ul> </li> <li>Garda: <ul> <li>This will enforce the policies for confirmed alarms</li> </ul> </li> </ul>

be deemed to be a s a second zone alarm is hin the one alarm set tion option is the <b>Standards -&gt; Region</b> e with the EN-50131-9 INT/316/2011 Order of 1 of alarm systems in the is requirement stipulates eemed to be a confirmed
ng conditions:
inutes (default), whereby rom the same device if , i.e. alarm / tamper.
d by an ATS[1] Fault
mper or alarm condition
the zone is restored to en the zone's alerts will can restore this alert. In ept a new alert condition vation. s not been restored to its that zone will be inhibited inhibited.
fter the 30 minute window e timer will restart.
on option is automatically s -> Region option is set
e with the VDS standard.
the system (Fullset / displayed in the bottom checked the setting status display after 7 seconds.
lay on keypad in Unset
ill be displayed for 30 d alarm has been
ay (16 chars).
ay (16 chars).
be displayed on the
n idle state. ge in which menus and eb interface and the even age is displaved in idle

Restriction	System Option	Description	
		state.	
PIN			
	PIN Digits	Enter the number of digits for user PINs (max. 8 digits). Increasing the number of digits will add the relevant number of zeros to the front of an existing PIN, e.g. an existing user PIN of 2134 (4 digits) will change to 00002134 if the PIN digits is set to 8. If you decrease the number of PIN digits, existing PINs will have their leading digits removed, e.g. an existing user PIN of 00002134 (8 digits) will change to 02134 if the PIN digits is set to 5. <b>Note:</b> This option cannot be changed if an SPC Manager PIN digit mode is set. Refer to page [ $\rightarrow$ 80]	
		<b>Note:</b> To comply with INCERT approvals, the user's PIN code must contain more than 4 digits.	
	PACE and PIN	If enabled, both PACE and PIN are required.	
	User Duress	Select one of the following Duress options to activate this function on the system.	
		<ul> <li>PIN +1(system reserves the PIN before and after the user PIN for duress.</li> </ul>	
		<ul> <li>PIN + 2 (system reserves two PINs before and after the user PIN for duress.</li> </ul>	
		Duress must be enabled for individual users. See section on Adding/Editing a User. [ $\rightarrow$ 48]	
	PIN Policy	Click on the <b>Edit</b> button to select options for PIN usage.	
		<ul> <li>Periodic changes required – enforces scheduled changes to the user's PIN. The period is defined in the PIN Valid field of Timers. See Timers [→ 74].</li> </ul>	
		<ul> <li>Warn if changes required – generates a user alert if the user's PIN is about to expire, or has expired. The warning period is defined in the PIN Warning field of Timers. See Timers [→ 74].</li> </ul>	
		<ul> <li>User selects the last digit – enables the user to select the last digit of their pin. The preceding digits are automatically generated by the system.</li> </ul>	
		<ul> <li>User selects the 2 digits - enables the user to select the last two digits of their PIN. The preceding digits are automatically generated by the system.</li> </ul>	
		<ul> <li>Limit Changes – limits the number of changes possible within a valid PIN period. This value is defined in the <b>PIN Changes Limit</b> field of <b>Timers</b>. See Timers [→ 74]</li> </ul>	
		<ul> <li>Secure PIN - If enabled the PIN will be automatically generated by the panel.</li> </ul>	
Door			
	Reset Cards	If enabled, access cards passback state will be reset every day at midnight.	
	Ignore site code	If enabled, the access system will ignore site codes. By ignoring the site code, you only add the card number and increase the card users on the system from 100 to 2,500.	
	Card Formats	Click on the <b>Edit</b> button to select the card formats that will be allowed on this panel.	
		Refer to the Appendix in the SPC Installation & Configuration Guide for details of currently supported card readers and card formats.	
		<b>Note:</b> Selecting <b>Wiegand</b> enables all Wiegand card formats.	
Web and	Door Mode Set	Select the required user identification to unlock door	
9

Restriction	System Option	Description
SPC Pro Only		when area is set. Options are <b>Default</b> , <b>Card and PIN</b> , <b>Card Or PIN</b> .
Web and SPC Pro Only	Door Mode Unset	Select the required user identification to unlock door when area is unset. Options are <b>Default</b> , <b>Card and PIN</b> , <b>Card Or PIN</b> .
Engineer		
٩	Engineer Restore	(Impact only if Region "UK" is chosen): If this option is enabled, then the engineer has to restore the confirmed alarms. This option works together with the function "Confirmation".
	Engineer Exit	If enabled, the engineer is allowed to leave Full Engineer mode with alerts active.
٩	Allow Engineer	Enable this feature to ensure that the engineer can only access the system if the user allows it. If disabled, ENABLE ENGINEER menu option on keypad is not available. <b>Note:</b> Only available if Security Grade is 'Unrestricted'. For Grade 2 / 3, user control of engineer access to system is always available.
U	Allow Manufacturer	Enable this feature to ensure that the engineer can only access the system if the user allows it. If disabled, ENABLE MANUFACTURER menu option on keypad is not available. <b>Note</b> : Only available if <b>Security Grade</b> is 'Unrestricted'. For Grade 2 / 3, user control of engineer access to system is always available if user type is 'Manager'.
SMS		
Policy	SMS Authentication	<ul> <li>Select one of the following options:</li> <li>PIN Code Only: This is a valid user code. See page [→ 48].</li> <li>Caller ID Only: This is the phone number (including three-digit country prefix code) as configured for user SMS control. SMS control will only be available for configuration by the user when this option is selected.</li> <li>PIN and Caller ID</li> <li>SMS PIN Code Only This is a valid PIN code configured for the user which is different from the user's login code. SMS controls will only be available for configuration by the user when this option is selected.</li> <li>SMS PIN Code Conly This is a valid PIN code configured for the user when this option is selected.</li> <li>SMS PIN Code &amp; Caller ID.</li> </ul>
Web Only	System Policy	Configure engineer login and tamper reporting behavior for system.
Web Only	Timing Policy	Display system timing policy.
Web and SPC Pro Only	Output Configuration	Click on the <b>Edit</b> button to configure latch and autoset output settings [ $\rightarrow$ 204].
Web Only	System Alert Policy	This programming option allows you to restrict the user and engineer's ability to restore, Isolate and inhibit alerts. The manner in which the system reacts to alerts can also be programmed.
Web Only	Zone Alarm	Select whether particular zone alarms can be restored,

п

Restriction	System Option	Description
(1)	Policy	inhibited or isolated by the user and engineer.
Web Only	Zone Tamper Policy	Select whether particular zone tampers can be restored, inhibited or isolated by the user and engineer.
Web Only	Keypad Display Policy	Select events to be displayed on keypads in both Set and Unset modes.
Web Only	Keypad LED Policy	Select which LEDs will be displayed on keypads in both Set and Unset modes.
Web Only	System General Policy	Select options to manage remote control of the system and alarm and bell settings from the following: - No confirmed alarms if internally set - Block remote restore - Block remote isolates - Block remote inhibits - No external bell if internal set - Delay reporting if entry active - Confirmed alarm cancels delay
Web Only	Confirmed Alarms System Alerts	Select which system alerts cause a confirmed alarms when at least one alarm is active, and which system alerts cause the panel to enter the tentative state.

#### See also

- Adding / Editing a User [ $\rightarrow$  48]
- Adding / Editing an area [ $\rightarrow$  122]

## 9.4 Timers

This window gives an overview about identified timer defaults and their description.

These settings, which vary depending on the defined Security Grade of the system, should only be programmed by an authorised installation engineer. Changing settings could render the SPC system noncompliant with security standards. Setting the Security Grade back to EN 50131 Grade 2 or EN 50131 Grade 3 overwrites any changes made on this page.



- 1. Select the tab Timers.
  - ⇒ The following window will be displayed.
- 2. See the table below for further action.
- 3. Click on the timer value in the column Value.
- 4. Enter the new value.

#### System Timers

🖔 Timer	Value	Units	Min	Max	💡 Description 🔄
Internal Bells	15	Minutes	0	999	Duration that internal sounders will sound when alarm is activated.
External Bells	15	Minutes	0	999	Duration that external sounders will sound when alarm is activated.
Ext.Bell Delay	0	Seconds	0	999	Delayed activation of external sounders.
Ext.Bell Strobe	15	Minutes	0	999	Duration that strobe output will be active when alarm is activated.
Chime	2	Seconds	1	10	Duration Chime output will activate, when a zone with CHIME attribute opens.
Double Knock	10	Seconds	1	99	Max delay between activations of zones with double attribute to cause an alarm
Soak	14	Days	1	99	Number of days a zone stays in soak test before returning to normal operation.
Mains Delay	0	Minutes	0	720	The time that a mains fault need to be present before it is reported.
Dialler Delay	30	Seconds	0	30	Dialer delay.
RKD Timeout	30	Seconds	10	300	Number of seconds a Keypad will wait for key entry before it leaves the menu.
Wireless fail to Set	0	Minutes	0	720	The number of minutes without supervision that will prevent arming.
Wireless Lost	720	Minutes	20	720	The number of minutes without supervision that reports a sensor lost.
Engineer Access	0	Minutes	0	999	Number of minutes when engineer access will automatically be revoked.
Bell on Fullset	0	Seconds	0	10	Activate external bell momentarily to indicate Fullset.
Strobe on Fullset	0	Seconds	0	10	Activate external bell strobe momentarily to indicate Fullset.
Final Exit	7	Seconds	1	45	Number of seconds to delay arming after final exit is closed.
Autoarm Warning	10	Minutes	0	30	Number of minutes to display warning before autoarming.
Tech.Delay	0	Seconds	0	9999	Number of seconds to delay triggering of tech.zones with tech.delay attribute.
Fail To Set	0	Seconds	0	999	Number of seconds to display fail to set message (0 = until valid code entered)
Frequent Time	0	Hours	1	9999	Period in which frequently used zones are expected to open at least once when
Fire Pre-alarm Time	0	Seconds	1	999	Period in which a fire alarm is not reported for zones with 'Fire Pre-alarm' attribu
Fire Recognition Time	0	Seconds	1	999	Extra time allowed to see if there is a fire for zones with 'Fire Pre-alarm' and 'Fire
•					

Click on the timer value to edit the entry.... Each entry has a maximum and minimum value that must be adhered to.....

#### Timers

Designation of the functions in the following order:

- 1<sup>st</sup> row: Web/SPC Pro
- 2<sup>nd</sup> row: Keypad

Timer	Description	Default
Audible		
Internal Bells INT BELL TIME	Duration that internal sounders will sound when alarm is activated. (1 – 15 minutes: 0 = never))	15 min.
External Bells EXT BELL TIME	Duration that external sounders will sound when alarm is activated. (1 – 15 minutes; 0 = never)	15 min.
External Bell Delay EXT BELL DELAY	This will cause a delayed activation of the external bell. (0 – 600 seconds)	0 sec.
Chime CHIME TIME	Number of seconds that a chime output will activate, when a zone with chime attribute opens. (1 – 10 seconds)	2 sec.
Confirmation		
Confirm CONFIRM TIME	<ul> <li>Note: Only available when Security Grade is 'Unrestricted' and 'DD243' is selected for 'Confirmation' variable. (See System Options [→ 66])</li> <li>This timer applies to the alarm confirmation feature and is defined as the maximum time between alarms from two different non overlapping zones that will cause a confirmed</li> </ul>	30 min.
	alarm. (30 – 60 minutes)	
Confirmed holdup	This timer applies to the confirmed holdup feature and is defined as the maximum time between alarms from two different non-overlapping zones that will cause a confirmed alarm. (480 - 1200 minutes)	480 min.

Timer	Description	Default		
Dialer Delay DIALER DELAY	When programmed, the dialler delay initiates a predefined delay period (0 -30 seconds) before the system dials out to an Alarm Receiving Centre (ARC). This is specifically designed to reduce unwarranted responses from Alarm Receiving Centres and the constabulary. In the event of a subsequent zone being tripped the dialler delay period is ignored and the dialler dials out immediately. (0 – 30 seconds)	30 sec.		
Alarm abort ALARM ABORT	Time after a reported alarm in which an alarm abort message can be reported. (0 – 999 seconds))	30 sec.		
Setting				
Setting Authorisation SETTING AUTH	Period for which Setting Authorisation is valid. Enter a value between 10 and 250 seconds.	20 secs		
Final Exit FINAL EXIT	The Final Exit time is the number of seconds that arming is delayed after a zone programmed with the final exit attribute is closed. (1 – 45 seconds)	7 sec.		
Bell on Fullset FULLSET BELL	Activates the external bell momentarily to indicate a full set condition. $(0 - 10 \text{ seconds})$	0 sec.		
Strobe on Fullset FULLSET STROBE	Activates the strobe on the external bell momentarily to indicate a full set condition. $(0 - 10 \text{ seconds})$	0 sec.		
Fail To Set FAIL TO SET	Number of seconds to display fail to set message on keypads (0 until valid PIN is entered). (0 – 999 seconds)	10 sec.		
Alarm				
Double Knock DKNOCK DELAY	The maximum delay between activation's of zones with the double attribute, which will cause an alarm. (1 – 99 seconds)	10 sec.		
Soak SOAK DAYS	The number of days a zone remains under soak test before it automatically returns to normal operation. (1 – 99 days)	14 days		
Seismic Test Interval SEISMIC AUTOTEST	The average period between seismic sensor automatic tests (12 – 240 hours) <b>Note:</b> To enable automatic testing, the <b>Automatic Sensor Test</b> attribute must be enabled for a seismic zone.	168 hours.		
Seismic Test Duration SEISMIC TEST DUR	Maximum time (in seconds) that a seismic sensor takes to trigger an alarm in response to the 'Seismic Test' output. (3 - 120 seconds)	30 sec.		
Lockout Post Alarm LOCKOUT POST ALARM	Duration after alarm that access will be denied.	0 mins		
External Bell Strobe STROBE TIME	Duration that the strobe output will be active when an alarm is activated. (1 – 15 minutes; 0 = indefinitely)	15 min.		
Alerts				
Mains Delay MAINS SIG DELAY	The time after a mains fault has been detected before an alert is activated by the system. $(0 - 60 \text{ minutes})$	0 min.		
Engineer				
Engineer Access ENGINEER ACCESS	The timer for the Engineer access starts as soon as the user enables the Engineer Access. (0 – 999 minutes. '0' indicates no time limitation for system access)	0 min.		
Engineer auto log out ENG AUTO LOG OUT	Duration of inactivity after which the engineer will be automatically locked out	0 mins.		
Keypad	Keypad			
Keypad Timeout KEYPAD TIMEOUT	The number of seconds that an RKD will wait for key entry before it leaves the current menu. (10 – 300 seconds)	30 sec.		
Keypad Language KEYPAD LANGUAGE	The duration a keypad will wait in idle before switching language to default ( 0 - 9999 seconds; 0 = never).	10 secs		
Fire				

Timer	Description	Default
Fire Pre-alarm FIRE PRE-ALARM	Number of seconds to wait before reporting fire alarm for zones with 'Fire pre-alarm' attribute set. $(1 - 999 \text{ seconds})$ See Editing a Zone [ $\rightarrow$ 120].	30 sec.
Fire recognition FIRE RECOGNITION	Extra time to wait before reporting file alarm for zones with 'Fire pre-alarm' and 'Fire Recognition' attributes set. $(1 - 999 \text{ seconds})$ . See Editing a Zone [ $\rightarrow$ 120].	120 sec.
PIN		
PIN Valid PIN VALID	Period for which pin is valid in days(1 - 330)	30 days
PIN Changes Limit PIN CHANGES LIMIT	Number of changes within a valid period (1 - 50)	5
PIN Warning PIN WARN	Time before PIN expiry after which a warning will be displayed (1 - 14)	5 days
General Settings		
RF Output Time RF OUTPUT	The time that the RF output will remain active on the system. $(0 - 999 \text{ seconds})$	0 sec.
Time Sync Limit TIME SYNC LIMIT	Time limit within which no event will be reported. (0 – 999 secs) Time synchronization only takes place if system time and update time are outside this limit.	0 sec.
Link Timeout LINK TIMEOUT	Timeout for Ethernet link fault (0 = Disabled) ( 0 - 250 )	0 secs
Camera Offline CAMERA OFFLINE	Time for camera to go offline ( 10 - 9999 )	10 secs
Tech. delay TECH. DELAY	Number of seconds to delay triggering of tech. zones with tech. delay attribute. (0 – 9999 seconds)	0 sec.
Frequent FREQUENT	This attribute only applies to Remote Maintenance. The number of hours a zone must open within if the zone is programmed with the <b>Frequent use</b> attribute. (1 – 9999 hours)	336 hours (2 weeks)
Duress silent	Time when duress will remain silent and not restorable from keypad (0 - 999).	0 Minutes
Holdup/panic silent	Number of minutes that a holdup/panic will remain silent and cannot be restored from the keypad (0 - 999).	0 Minutes



Default times are dependent upon the Engineer configuration. The default times denoted may or may not be allowable and is dependent on the configuration by the engineer

# 9.5 Clock

This window allows you to program the date and time on the panel. The controller contains a **R**eal-**T**ime **C**lock (RTC) that is battery backed to preserve the time and date information in the event of power failure.





1. Click the tab Clock.

⇒ The following window will be displayed:

<u>Set Date/Time</u>		
	Date & Time	
	Time :	10:00:00 📫
	Date :	21.04.2010
	Get PC Date/Time	Send to Panel
	Automatic Daylig Synchronize I	ht Saving Time 🔽 Time with Mains 🔲

2. Select the **Time** and **Date** from the drop down menus. - OR -

Click the button Get PC Date/Time to get the PC date and time.

- 3. Click the button Send to Panel to send the date and time information to the panel
- 4. Configure the following fields:

Automatic Daylight Saving Time	If selected, the system will automatically switch to summer time
Synchronize time with Mains	If selected, the RTC synchronizes itself with the sine wave in the power line

The selected time and date will be displayed on the keypad, the web interface and the event log.

# 9.6 Language

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- 1. Click the tab Language.
  - ⇒ The following window is displayed:

Language Option		
Language	English	Select language used on keypads, web interface, and reporting of events

- 2. Select a language from the dropdown menu.
- ➡ The texts on the keypads, the web interface and the event log will be displayed in the selected language

The languages available in the **Language** drop-down list depend on the languages defined on the system. If you have not connected to your panel and downloaded the configuration file, all languages are displayed. If you have downloaded the configuration from the panel, only those languages available on the system are displayed in the **Language** drop-down list.

The language used in the keypads and browser depends on the language selection made for each user. For example, if the system language is set to French, but the individual user's language is set to English, English is the language used in both keypads and browser for that user, regardless of the specified system language.

# 9.7 SPC Pro / SPC Safe

Communications



SPC Pro / SPC Safe

#### SPC Pro

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- 1. Click the SPC Pro / SPC Safe button.
- 2. Configure the fields as described in the table below.

Enable	Tick this box to enable SPC Pro to connect to the panel.
Engineer Access	Tick this box if engineer access must be granted to allow SPC Pro to connect to the panel.
Password	Enter the password for SPC Pro connection. The password is checked by the panel every time SPC Pro attempts to connect to it. If the password programmed in this field matches the password programmed on the panel, then the connection will be allowed (default: ).
Enable IP	Tick this box to enable a connection to the panel using Internet Protocol (IP).

IP Port	Select the IP port that SPC Pro will use to connect to the panel
	connect to the parter.

#### SPC Safe

For further information about configuration of the SPC Safe please refer to the *SPCS410 Installation & Configuration Manual.* 

- 1. Click the Enable SPC Safe button.
- 2. Configure the fields as described in the table below.

Enable	Tick this box to enable Pro to connect to the panel.
Engineer Access	Tick this box if engineer access must be granted to allow Pro to connect to the panel.
Password	Enter the password for the Pro connection. The password is checked by the panel every time the Pro attempts to connect to it. If the password programmed in this field matches the password programmed on the panel, then the connection will be allowed (default: ).
Installation ID	Enter the numeric identification of this installation (can also be set in System Identification page).
Enable Reporting	Check to allow the panel to contact the server after its configuration has been changed.
Reporting Timer	Enter the minutes how long after the last configuration change the panel should contact the server to report its configuration (min: 1, max.: 120).
Enable IP	Tick this box to enable a connection to the panel using Internet Protocol (IP).
TCP/IP Port	Enter the IP port that SPC Safe will use to connect to the panel (the IP port of the panel).
Server address	Enter the Hostname, URL or IP address of the SPC Safe server (e.g the IP address of your PC).
Server TCP/IP Port	Enter theTCP port of the SPC server (e.g .the IP port of your PC).

# 9.8 SPC Manager

The SPC manager mode setting determines the number of digits for user PINs and therefore the number of available PINs on a global system controlled by SPC Manager.

Mode41: 4-digit PIN enables 1,000 global users

Mode51: 5-digit PIN enables 10,000 global users

Mode61: 6-digit PIN enables 100,000 global users

Mode71: 7-digit PIN enables 1000,000 global users

Mode81: 8-digit PIN enables 10,000,000 global users

When you set an SPC Manager mode, additional zeros are added to the front of existing 4 or 5 digits user PINs which modify the PIN for global use. For example, if **Mode71: 7-PIN Digit** is selected, 3 zeros are added to existing 4 digit PINs - 2222 will become 0002222.

To set the SPC Manager Mode:

#### Panel Settings



#### System Settings

- 1. Select the tab SPC Manager.
  - $\Rightarrow$  The following window is displayed.

B System Settings	
Panel Settings - System Settings	
🛫 Identification 🔮 Standards 🤄 Options 🥚 Timers 💽 Clock 📸 Language 🎇 SPC Pro/SPC Safe 🔮 SPC Manager	
SPC Manager SPC Manager Mode : Enabled - 6 PIN Digits	
SPC Manager Enable/Disable	

- 2. Click on the SPC Manager Enable/Disable button.
- **3.** Select the SPC Manager global user mode from the drop down list in the displayed dialog.
- 4. Click on OK.

i	NOTICE
	SPC Manager modes cannot be changed if global users exist on the system.

# 10 Configuring controller inputs & outputs

# 10.1 Editing an input



Controller Inputs &

Outputs

- 1. Click the tab Inputs.
  - ⇒ The following window will be displayed:

nput	End Of Line	Analysed	Count	Attack	Zone	Description	Туре	Attributes	Area
1	Dual 4K7/4K7		5	5	1		Alarm	<b>1</b>	1 -
2	Dual 4K7/4K7		5	5	2		Alarm	<b>~</b>	1 -
3	Dual 4K7/4K7		5	5	3		Alarm	<b>~</b>	1 -
4	Dual 4K7/4K7		5	5	4		Alarm	<b>~</b>	1 -
5	Dual 4K7/4K7		5	5	5		Alarm	<b>~</b>	1 -
6	Dual 4K7/4K7		5	5	6		Alarm	<b>~</b>	1 -
7	Dual 4K7/4K7		5	5	7		Alarm	<b>~</b>	1 -
8	Dual 4K7/4K7		5	5	8		Alarm	<b>*</b>	1 -

**2.** Click the button to modify the End Of Line (EOL) resistance configuration for all inputs (controller and expanders).



Please ensure that the programmed EOL configuration matches the actual EOL configuration. Failure to do so may result in zones operating incorrectly.

- 3. Click an input from the list.
  - $\Rightarrow$  The following window will be displayed.
- 4. Configure the fields as described in the table below.
- 5. Click OK.

Configure In	put Settings			
Input :	1	Zone :	1	
End of Line :	Dual 4K7/4K7 -	Description :	Front door Keyarm	
Analysed :		Type :		
Pulse Count :	0 -	Area :		
Gross Attack :			486 AARTISTATIONS	
tributes		- <b>0</b> -1	Open Oply	
			Open Only	
121				
			Kevarm Fullset	
			Kevarmilnset	
			Shunt	
×2			Tech Zones Report	
	Inhibit			
	Normally Open	A?		
<u> </u>	Slent			
	Log		Armed Report Only	
<b>N</b>	Frequent Use	- <b>#</b>		
Ē Ā	Exit Open			
		. 4.		
V 6	Delayed Setting		Force Set	

Input	The number is presented for reference and can not be programmed.
End of Line	Select the End of Line (EOL) for the zone input (default: 4K7).
Analyzed	Displays if the sensor is an inertia/shock type sensor
Pulse count	Pulse count programmed on the panel that will trigger an alarm from an inertia / shock sensor.
Gross Attack	The Gross attack programmed on the panel that will trigger an alarm from an inertia/shock sensor
Zone	Number of the zone on the panel
Description	Enter a text describing the input (max. 16 characters). This text will also appear on the browser and keypad.
Туре	The type of zone (see page [ $\rightarrow$ 260]).
Area	Only if (multiple) Areas is activated in menu Panel Settings > System Settings > Options. Select the areas to which this zone has been assigned.
Attributes	An icon in this field indicates that attributes have been programmed for this zone (see page $[\rightarrow 84]$ ).

## 10.1.1 Input zones: attributes

Each zone on the SPC can be assigned an attribute that determines the properties of that zone.

To assign an attribute to a zone:



- 1. Click the tab Inputs.
- 2. Click an input from the list.
  - ⇒ The following window will be displayed:

Configure In	put Settings			
Input :	1	Zone :	1	
End of Line :	Dual 4K7/4K7 🔻	Description :	Front door Keyarm • 1 - Reception •	
Analysed :		Type:		
Pulse Count :	0 -	Area :		
Gross Attack :	0 -			
ttributes	d7 755 JO			
- <b>B</b>			Open Only	
[ā]				
B) 🗇				
			Keyarm Fullset	
			Keyarm Unset	
			Shunt	
		Ē 🍎	Tech Zones Report	
	Inhibit			
	Normally Open	A?		
	Silent			
	Log			
	Frequent Use			
i i	Exit Open			
	Delayed Setting		Force Set	

- 1. Check the box beside the preferred attribute.
- 2. Click OK.

The attributes presented on this page will depend on the type of zone selected. For a list of assignable attributes see page [ $\rightarrow$  265].

# 10.2 Editing an output

Panel Settings



- 1. Click the tab Outputs.
  - ⇒ The following window will be displayed:

#### Controller Outputs

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Output	Description	Туре	Assigned as:	Туре	Invert	Log
1	Ext. Bell	<system output=""></system>	System O/P - [External Bell]	Continuous		
2	Int. Bell	<system output=""></system>	System O/P - [Internal Bell]	Continuous		
3	Strobe	<system output=""></system>	System O/P - [Ext.Bell Strobe]	Continuous		
4	Fullset	<system output=""></system>	System O/P - [Full Set]	Continuous		
5	Alarm	<system output=""></system>	System O/P - [Alarm]	Continuous		
6	Alarm Confirmed	<system output=""></system>	System O/P - [Alarm Confirmed]	Continuous		
				Test Outputs : [	???? 1 2 3	???

- 2. Click on the button Refresh Output Status.
- **3.** Click on one of the **Test Outputs** buttons to test if the output is connected correctly (light will go on).



The functionality Test Outputs is only available in Full Engineer mode.

- 4. Click an output from the list.
  - $\Rightarrow$  The following window will be displayed.
- 5. Configure the fields as described in the table below.
- 6. Click OK.

ne output 1					
Configure Out	out settings				
tput Mapping :					
Output Type (Ma	pping)				
System Output	ſ		1 - Reception	1	•
Area Output	22		External Bel	1	•
Cone Manning		1			
Magning Calo					
Mapping Gate					
Open Output					
C Keyswitch					
tput Configurati	on :				
Description					
Description .	EXT. Bell			<u>.</u>	
Mode :	Continuous			•	
Retrigger	32205	-	[100ms]		
Retrigger On Time :	0	-			
Retrigger On Time : Off Time :	0		[100ms]		
Retrigger On Time : Off Time : Invert :	0		[100ms]		
Retrigger On Time : Off Time : Invert : Log :			[100ms]		
Retrigger On Time : Off Time : Invert : Log : Calendar :	0 0 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		[100ms]	- 🔍 🛉	

Output Type	<ul> <li>System Output: Select the type from the dropdown menu. (See Output Types and Output Ports [→ 87])</li> </ul>
	<ul> <li>Area Output: Only if (multiple) Areas is activated in menu Panel Settings &gt; System Settings &gt; Options. Select an area and the type of system output for this area. (See Output Types and Output Ports [→ 87])</li> </ul>
	• Zone Mapping: Select which zone should be mapped.
	• Mapping Gate: Select which mapping gate should be mapped.
	<ul> <li>Door Output: Select the door number and the type of system output for the door. (See Output Types and Output Ports [→ 87])</li> </ul>
	• <b>Keyswitch</b> : Select the node ID for the required keyswitch and the required key position to map to this output.
Description	Enter a text describing the output (max. 16 characters). This text will also appear on the browser and keypad.
Output Configuration	<ul> <li>Mode: Select the operational mode. Continuous follows output type; Pulsed toggles on and off when output type is active; Momentary generates a pulse when output type activates.</li> </ul>

•	Retrigger: Tick the box to retrigger momentary outputs.
•	On Time: Enter the On time that applies to momentary and pulsed outputs.
•	Off Time: Enter the Off time that applies to pulsed outputs.
•	Invert: Tick this box to invert the physical output.
•	Log: Tick this box to log the output state changes to the event log.
•	<b>Calendar</b> : Select if necessary the desired calendar. See page [ $\rightarrow$ 194].

#### See also

Calendars [→ 194]

## 10.2.1 Outputs types and output ports

Each output type can be assigned to one of the 6 physical output ports on the SPC controller or to an output on one of the connected expanders. Output types that are not assigned to physical outputs act as indicators of events on the system and may be logged and/or reported to remote central stations if required.

The output ports on the expanders are all single pole relay type outputs (NO, COM, NC); therefore, output devices may need external power sources to activate if they are wired to expander outputs.

The activation of a particular output type depends on the zone type (see page  $[\rightarrow 260]$ ) or alert condition that triggered the activation. If multiple areas are defined on the system then the outputs on the SPC are grouped into system outputs and area outputs; the system outputs are activated to indicate a system wide event (e.g. mains fault) whereas the area outputs indicate events detected in one or more of the defined areas on the system. Each area has its own set of area outputs; if the area is a common area for other areas, then its outputs will indicate the state of all the areas it is common for, including its own state. For example, if Area 1 is common for Area 2 and 3, and Area 2 Ext. Bell is active, then the Area 1 Ext Bell output is also active.

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Some output types can only indicate system wide events (no specific area events). Please refer to the table below for further information.

Output Type	Description
External Bell	This output type is used to activate the system external bell and is active when any Area External Bell is active. By default, this output is assigned to the first output on the controller board (EXT+, EXT-).
	<b>Note</b> : An external bell output is automatically activated whenever a zone programmed as an Alarm zone triggers an alarm in Fullset or Partset modes.
External Bell Strobe	This output type is used to activate the strobe on the system external bell and is active when any area strobe is active. By default, this output is assigned to the strobe relay output (Output 3) on the Controller board (NO, COM, NC).
	<b>Note</b> : An external bell strobe output is automatically activated whenever a zone programmed as an alarm zone triggers an alarm in Fullset or Partset modes. The external bell strobe activates on a 'Fail to Set' condition if the strobe on the 'Fail to Set' option is checked in system options.
Internal Bell	This output type is used to activate the internal bell and is active when any area Internal Bell is active. By default, this output is assigned to the second output on the controller board (INT+, INT-).
	<b>Note</b> : An internal bell output is automatically activated whenever a zone programmed as an Alarm zone type triggers an alarm in Fullset or Partset modes. The internal Bell activates on a 'Fail to Set' condition if the Bell on the 'Fail to Set' option is checked in system options.
Alarm	This output turns on following alarm zone activation on the system or from any area



Editing an output

	defined on the system.
Alarm Confirmed	This output turns on when an alarm has been confirmed. An alarm is confirmed when 2 independent zones on the system (or within the same Area) activate within a set time period).
Panic*	This output turns on following activation of panic alarm zone types from any area. A panic alarm output is also generated if a user duress event is generated or if the panic option for the keypad is enabled.
Hold-up	This output turns on whenever a zone programmed as a Hold-up type zone triggers an alarm from any area
Fire	This output turns on following a fire zone activation on the system (or from any area)
Tamper	This output turns on when a tamper condition is detected from any part of the system.
	For a grade 3 system, if communication is lost to an XBUS device for greater than 100s, a tamper is generated and SIA and CIR reported events will send a tamper.
Medical	This output turns on when a medic zone is activated
Fault	This output turns on when a technical fault is detected
Technical	This output follows tech zone activity
Mains Fault*	This output activates when Mains power is removed
Battery Fault*	This output activates when there is a problem with the backup battery. If the battery voltage drops below 11 V this output activates. The 'Restore' option for this fault is only presented when the voltage level rises to above 11.8 V.
Partset A	This output is activated if the system or any area defined on the system is in Partset A mode
Partset B	This output is activated if the system or any area defined on the system is in Partset B mode
Fullset	This output is activated if the system is in Fullset mode
Fail to set	This output activates if the system or any area defined on the system failed to set; it clears when the alert is restored
Entry/Exit	This output activates if an Entry/Exit type zone has been activated; i.e. a system or area Entry or Exit timer is running
Latch	This output turns on as defined in the system latch output configuration (see Configuring system latch and auto set outputs [ $\rightarrow$ 204]).
	This output can be used to reset latching sensors as smoke or inertia sensors.
Fire Exit	This output turns ON if any Fire-X zones on the system are activated
Chime	This output turns on momentarily when any zone on the system with chime attribute opens
Smoke	This output turns on momentarily( 3 seconds) when a user unsets the system; it can be used to reset smoke detectors
	The output will also activate when the zone is restored
	When using the zone to reset latched smoke detectors the first code entry will not activate the smoke output but will silence bells, on the next code entry if the fire zone is in the open state the smoke output will activate momentarily. This process is repeatable until the fire zone is closed.
Walk Test*	This output turns on momentarily when a walk test is operational and a zone becomes active. This output can be used, for example, to activate functional tests of connected detectors (if available).
Auto Set	This output turns on if the Auto Set feature has been activated on the system.
User Duress	This output turns on if a user duress state has been activated (PIN code + 1 has been entered on the keypad)
PIR Masked	This output turns on if there are any masked PIR zones on the system. It generates a fault output on the keypad led.
	This output is latched so it will remain active until restored by a level 2 user. PIR Masking is logged by default. The number of log entries do not exceed 8 between

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	arming periods.
Zone Omitted	This output turns on if there are any inhibited, isolated, or walk test zones on the system
Fail to Communicate	This output turns on if there is a failure to communicate to the central station
Man Down Test	This output turns on a 'Man Down' wireless device which is activated during a 'Man Down' test.
Unset	This output is activated if the system is in Unset mode.
Alarm Abort	This output activates if an alarm abort event occurs i.e. when a valid user code is entered via the keypad after a confirmed or unconfirmed alarm. It is used, for example, with external dialers (SIA, CID, FF)
Seismic Test	This output is used to activate a manual or automatic test on a seismic zone. Seismic sensors have a small vibrator that will be attached to the same wall as the sensor and is wired to an output on the panel or one of its expanders. During the test, the panel waits up to 30 seconds for the seismic zone to open. If it does not open, the test fails. If it opens within 30 seconds the panel then waits for the zone to close within 10 seconds. If that doesn't happen, the test fails. The panel then waits a further 2 seconds before reporting the test result. The result of the test, either manual or automatic, is stored in the system event log
Local Alarm	This output activates on a local intrusion alarm.
RF Output	This output activates when a Fob or WPA button is pressed.
Modem 1 Line Fault	This output activates when there is a line fault on the primary modem
Modem 1 Failure	This output activates when the primary modem fails.
Modem 2 Line Fault	This output activates when there is a line fault on the secondary modem.
Modem 2 Failure	This output activates when the secondary modem fails.
Battery Low	This output activates when the battery is low,
Entry Status	This output activates if an 'All Okay' entry procedure is implemented and there is no alarm generated i.e. the 'All Okay' button is pressed within the configured time after the user code is entered.
Warning Status	This output activates if an 'All Okay' entry procedure is implemented and a silent alarm generated i.e. the 'All Okay' button is not pressed within the configured time after the user code is entered.
Ready to Set	This output activates when an area is ready to set.
Setting ACK (SPC Pro — Setting Complete)	This output signals the setting status. The output toggles for 3 seconds to signal that the setting has failed. The output remains on for 3 seconds if setting is successful.
Fullset Done (SPC Pro — Setting Success)	This output activates for 3 seconds to signal that the system has been fullest.
Blockschloss 1	Used for normal Blockschloss devices. When all zones in an area are closed, and there are no pending faults, the 'Blockschloss 1' output is activated. If the lock on the Blockschloss is closed, a 'Keyarm' input is activated, the relevant area is set and the 'Setting Ack' output is activated for 3 seconds to signal that the setting was successful. 'Blockschloss 1' is not deactivated. If the Blockschloss is unlocked, the Blockschloss device deactivates the Keyarm input to the unset state (closed) and the area is unset. 'Blockschloss 1' is then deactivated.
Blockschloss 2	Used for Blockschloss device type - Bosch Blockschloss, Sigmalock Plus, E4.03.
	When all zones in an area are closed, and there are no pending faults, the 'Blockschloss 2' output is activated. If the lock on the Blockschloss is closed, a 'Keyarm' input is activated, the relevant area is set and the 'Setting Ack' output is activated for 3 seconds to signal that the setting was successful. 'Blockschloss 2' is then deactivated.
	It the Blockschloss is unlocked, the Keyarm zone is switched to unset (closed) and the area is unset. 'Blockschloss 2' is activated (if area is ready to set).
Lock Element	Activates if the Lock Element is in the 'locked' position.



Editing an output

Unlock Element	Activates if the Lock Element is in the 'unlocked' position.				
Code Tamper	Activates if there is a code tamper in the area. Clears when state is reset.				
Trouble	Activates if any zone is in trouble state.				
Ethernet Link	Activates if there is a fault on the Ethernet link.				
Network Fault	Activates if there is an EDP communications fault.				
Glass Reset	Used to switch on the power for the glassbreak interface module and to remove power in order to reset the device. The output is reset if a user enters their code, the zone is not in the closed state, and the bells deactivated.				
Confirmed holdup	<ul> <li>Activates in the following scenarios for PD6662 compliance:</li> <li>two hold-up zone activations more than two minutes apart</li> <li>a hold-up zone and a panic zone activation more than two minutes apart</li> <li>If a hold-up zone and a tamper zone or a panic zone and a tamper zone activation occurs within the two minute period</li> </ul>				
Full Engineer	Activates if an engineer is on site and the system is in full engineer mode.				

\* This output type can only indicate system wide events (no area specific events).

#### See also

■ Configuring system latch and auto set outputs [ $\rightarrow$  204]

# 11 Configuring expanders, keypads and door controllers

# 11.1 Configuring Expanders on an SPC panel

!	NOTICE
	We recommend that you connect to the panel and upload the current expander configuration before attempting to configure expanders on the panel. Only If you have an up to date and complete knowledge of the actual expander configuration on the panel, should you proceed to send your configuration settings to the panel without uploading the existing configuration from site.

When adding or editing expanders the following rules apply:

- SPC Pro will NOT allow you to send a configuration file to the panel if the number of expanders configured does not match the actual number of expanders detected on the panel. The number of expanders detected on the panel is displayed on the configuration window (see page [→ 18]) when you connect to the panel.
- SPC Pro will NOT allow you to send a configuration file to the panel if the type of expanders configured does not match the actual type of expanders detected on the system - e.g. if you configure 3 keypads and 2 I/O expanders on SPC Pro, you will be restricted from sending this configuration to a panel with 3 I/O expanders and 2 keypads.

You may configure expanders on the panel using 2 methods:

#### Get configuration file from panel before configuring (recommended)

This is the recommended method for adding expanders to the panel. On connecting and uploading the current configuration. See page [ $\rightarrow$  19].

SPC Pro will present you with a copy of the existing configuration on the panel. You will then know the number, type and order of expanders connected to the X-BUS on the panel. See page [ $\rightarrow$  92].

You may proceed to edit the expanders in the list as required and then send your changes to the panel.

#### Send configuration file to panel without uploading

- Before using this method it is essential that you have a complete knowledge of the number and type of expanders connected to the panel. To send your expander configuration to the panel follow these steps:
- 2. On first connecting to the panel, the number and type of expanders detected is displayed on the **Panel Status** X-BUS summary window. See page [→ 34].
- **3.** Make a note of this list detailing the number, type and order of the expanders on the X-BUS .
- 4. Go to Panel settings > Expanders & Keypads > Expanders
- 5. Add the appropriate number and type of expanders to match the list presented in the panel window **Status** X-BUS.
- 6. You may then configure these expanders as required. See page [ $\rightarrow$  94].
- 7. Send your configuration changes to the panel.

# 11.2 Expanders

# 11.2.1 Adding and Configuring Expanders

Panel Settings



Expanders & Keypads

#### 1. Click the **Expander** tab.

⇒ The following window will be displayed.

xpander	Туре	Serial#	Description	Inputs	Outputs	
	I/O Expander	114214801	I/0 Expander 1	8	2	
Add N 🕮	lew Expander	60	View X-BUS Map	🕺 💥 Settina	s	

#### 2. The following information is displayed for each expander.

Expander	The expander number on the panel.
Туре	The type of the expander (Keyswitch, I/O, PSU, Wireless, etc.).
Serial Number	The serial number of the expander.
Description	The text description of the expander.
Status	The current status of the expander (online/offline).
Inputs	The number of inputs on the expander.
Outputs	The number of outputs on the expander.

#### Performable actions

Add New Expander	Click this button to add a new expander to the panel.
View X-BUS Map	
Settings	Click this button to configure the X-BUS on the panel.

Auto-assign serial numbers from Panel Nodes	Click this button to enable the system to automatically assign serial numbers to existing expanders on the panel.
Re-assign Expander IDs Serial Nums	Click this button to re-assign existing expanders on the panel.

#### See also

- Arr Albert A. BUS [→ 34]
- Activate keypad emulation [ $\rightarrow$  217]

## 11.2.1.1 Adding a New Expander

#### Add new Expander

- 1. Click the button Add New Expander.
  - ⇒ The following window will be displayed.

Select Expander ty	rpe details			
Expander ID :	4			
Serial # :	4			
Description :				
Type :	I/O Expander	~	- 8 Input / 2 Output	· ·
		16	8 Input / 2 Output 8 Output Wireless Only	
			🕜 ок	Cancel

- 2. Configure the fields as described in the table below.
- 3. Click OK.

Expander ID	The number is presented for reference and can not be programmed.
Serial Number	The serial number of an expander is located in the expander firmware and can not be programmed. The number listed in this field is used simply as a reference when adding the expander. The serial number field will be listed as <unassigned> in the expander list if this information has not yet been uploaded from the panel.</unassigned>
Description	Enter a text describing the expander (max. 16 characters). This text will also appear on the browser and keypad.
Туре	Select the type of expander. If I/O Expander is selected, also select the type of I/O Expander

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New expanders can only be added to the panel if they have been physically wired to the X-BUS and added to the configuration file. If expanders have been physically wired to the panel X-BUS on site but not yet added to the configuration database, then you can add them to the system using SPC Pro by following these steps:

## 11.2.1.2 Adding an Expander to the Configuration Database

- 1. Connect to the panel.
- 2. Check the X-BUS summary status. See page [ $\rightarrow$  34].
- 3. Any newly wired expanders will be displayed with a status of pending.
- 4. Click on the virtual keypad. See page [ $\rightarrow$  217].
- 5. Enter Engineer programming mode.
- 6. Select FULL ENGINEER > EXPANDERS > ADD.
  - $\Rightarrow$  The expanders will be listed in this menu.
- 7. Select Add to add these expanders to the database.
- 8. Exit the virtual keypad.
- 9. Click Get config file from panel.
- 10. Open the Expander list.
- ⇒ The newly added expanders will be listed and can be configured as required.

## 11.2.2 Configuring an Input/Output Expander

Panel Settings



Expanders & Keypads

- 1. Click an expander from the list.
  - ⇒ The following window will be displayed.

Expander ID :	1							
Type:	1/O Expander [8 Input / 2 Output] 94289801							
Serial # :	1							
PSII Type	SPCP355							
Inputs Contruits	PSU							
Input End Of Line	Analysed	Pulse Count	Gross Attack	Zone	Description	Туре	Attributes	Area
1 Dual 4K7/4K7				9	Seismic	Unused		1
2 Dual 4K7/4K7				10		Unused		1
3 Dual 4K7/4K7				11		Unused		1
4 Dual 4K7/4K7				12		Unused		1
5 Dual 4K7/4K7				13		Unused		1
6 Dual 4K7/4K7				14		Unused		1
7 Dual 4K7/4K7				15		Unused		1
						Transportation (		

2. Enter the following information for the expander:

Description	Enter a new description or edit the existing description for the expander.
Volume Limit	Audio Expander Only: Speaker volume for the Audio Expander and satellites (WAC 11. Range is 0 min - 7 max or disabled.
Auxillary Channnel	Audio Expander Only: This option should be enabled if satellites are connected to this expander to power the satellite microphones.

• Enter Input and Output information as detailed in the following sections.

#### Inputs

- 1. Click an input from the list.
  - $\Rightarrow$  The following window will be displayed.
- 2. Configure the fields as described in the table below.
- 3. Click OK.



Input	The number is presented for reference and can not be programmed.
End of Line	Select the End Of Line (EOL) for the zone input (default: 4K7).
Analyzed	Displays if the sensor is an inertia/shock type sensor.
Pulse count	Pulse count programmed on the panel that will trigger an alarm from an inertia / shock sensor.
Gross Attack	The Gross attack programmed on the panel that will trigger an alarm from an inertia/shock sensor.
Zone	Number of the zone on the panel.
Description	Enter a text describing the input (max. 16 characters). This text will also appear on the browser and keypad.
Туре	The type of zone. See page [ $\rightarrow$ 260].
Area	Only if (multiple) <b>Areas</b> is activated in menu <b>Panel Settings &gt; System Settings &gt; Options</b> . The areas to which this zone has been assigned.

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An icon in this field indicates that attributes have been programmed for this zone. See page [ $\rightarrow$  262].

### Outputs

- 1. Click the tab **Outputs** in the window **Edit Expander**.
- 2. Click an output from the list.
  - ⇒ The following window will be displayed.
- 3. See tables below for further information.

Configure Out	out settings			
utput Mapping :				
🗸 Output Type (Ma	ipping)			
System Output		1 - Reception	(	•
Area Output	100 - 100 -	External Bell		•
Zone Mapping				
O Door Output				
Door Output Keyswitch Utput Configuration	on :			
<ul> <li>Door Output</li> <li>Keyswitch</li> <li>Utput Configurati</li> <li>Description :</li> </ul>	on : Ext. Bell			
<ul> <li>Door Output</li> <li>Keyswitch</li> <li>Utput Configurati</li> <li>Description : Mode :</li> </ul>	on : Ext. Bell Continuous			
<ul> <li>Door Output</li> <li>Keyswitch</li> <li>Utput Configurati</li> <li>Description : Mode : Retrigger</li> </ul>	on : Ext. Bell Continuous			
<ul> <li>Door Output</li> <li>Keyswitch</li> <li>Utput Configuration :</li> <li>Description :</li> <li>Mode :</li> <li>Retrigger</li> <li>On Time :</li> </ul>	on : Ext. Bell Continuous	[100ms]		
<ul> <li>Door Output</li> <li>Keyswitch</li> <li>Utput Configuration :</li> <li>Description :</li> <li>Mode :</li> <li>Retrigger</li> <li>On Time :</li> <li>Off Time :</li> </ul>	on : Ext. Bell Continuous	[100ms] [100ms]		
<ul> <li>Door Output</li> <li>Keyswitch</li> <li>Utput Configuration :</li> <li>Description :</li> <li>Mode :</li> <li>Retrigger</li> <li>On Time :</li> <li>Off Time :</li> <li>Invert :</li> </ul>	on : Ext. Bell Continuous	[100ms]		
<ul> <li>Door Output</li> <li>Keyswitch</li> <li>Utput Configuration :</li> <li>Description :</li> <li>Mode :</li> <li>Retrigger</li> <li>On Time :</li> <li>Off Time :</li> <li>Invert :</li> <li>Log :</li> </ul>	on : Ext. Bell Continuous	[100ms] [100ms]		

Output Type	•	<b>System Output</b> : Select the type from the dropdown menu. (See Output Types and Output Ports [ $\rightarrow$ 87])
	•	Area Output: Only if (multiple) Areas is activated in menu Panel Settings > System Settings > Options. Select an area and the type of system output for this area. (See Output Types and Output Ports [ $\rightarrow$ 87])
	•	Zone Mapping: Select which zone should be mapped.
	•	Mapping Gate: Select which mapping gate should be mapped.
	•	Door Output: Select the door number and the type of system output for the door.

	(See Output Types and Output Ports $[\rightarrow 87]$ )
	• <b>Keyswitch</b> : Select the node ID for the required keyswitch and the required key position to map to this output.
Description	Enter a text describing the output (max. 16 characters). This text will also appear on the browser and keypad.
Output Configuration	• <b>Mode</b> : Select the operational mode. Continuous follows output type; Pulsed toggles on and off when output type is active; Momentary generates a pulse when output type activates.
	• <b>Retrigger</b> : Tick the box to retrigger momentary outputs.
	• On Time: Enter the On time that applies to momentary and pulsed outputs.
	• Off Time: Enter the Off time that applies to pulsed outputs.
	• Invert: Tick this box to invert the physical output.
	• Log: Tick this box to log the output state changes to the event log.
	• Calendar: Select if necessary the desired calendar. See page [→ 194].

#### Performable actions

Refresh Output Status	Click on this button to refresh the status of the outputs.
Test Outputs	Click on one of these buttons to test if the output is connected correctly (light will go on).

The functionality **Test Outputs** is only available in Full Engineer mode.

#### See also

□ Calendars [ $\rightarrow$  194]

## 11.2.2.1 PSU Tab

The PSU tab enables you to configure and test the outputs for the SPCP355 Smart PSU.

**Note:** This tab is displayed only if SPCP355 Smart PSU is selected from the PSU Type drop-down list.

lnputs	Outputs m PSU					
Output	Description	Туре	Assigned as:	Mode	Invert	Log
1		( and a second s		Continuous		
2				Continuous		
3				Continuous		
4				Continuous		
	S Refresh PSU Outputs			Test Outputs : ? 1	? ? ? 2 3 4	
Pr	rimary Battery Only		Мо	nitor Outputs - Ou	tput Monitor 1 tput Monitor 2 tput Monitor 3	

**i** 

The following table lists the fields of the PSU tab:

Name	Description
Output	The numbered output.
	Click a line to open the Edit PSU Output window for the selected output. This enables you to assign specific behaviour to each output. For more information, see Editing an output [ $\rightarrow$ 85].
Description	Provide description for output.
Change type	Change the type of output as necessary.
Attributes	Assign attributes to the output.
Test Outputs	Test the output.
Monitor Outputs	Select which outputs are to be monitored.
Primary battery only	Tick this box if there is no secondary battery connected to the PSU

## 11.2.3 Configuring an Indicator Expander

There are 2 possible configuration modes for the indication expander:

- Linked Mode
- Flexible Mode





Expanders & Keypads

- Add a new indicator expander or click on an existing indicator.
- ⇒ The following dialog box is displayed for **Linked Mode** configuration.

lit Expander Edit Exp	ander						
Conf	igure the s	ettings for thi	s expande	1			
	Expano Type : Serial	ler ID : # :	4 Indicator [ 10008012	1 Input / 0 Output] 48			
	Descrij Input :	ption :					
	Zone 33	Input Expander 4	- Input 1	Zone Text	Type Alarm	Area 1 - Premises	K Edit
Function	Keypao LED Alv	d: vays	1 - []	LED indicators should	be active when	keys are deactivated	
runction		Key	Ar	ea			
		1		DNE	~		
		3	NC	NE	~		
		4	NC	NE	~		
Ок		X Delete	¢	눩 Flexible Mode			Cancel

#### **Linked Mode**

- 1. Enter a description.
- 2. Select if indicator module should be limited to a valid code entered on a keypad.
- 3. Select the areas that are to be controlled by the 4 functions keys.
- **4.** Configure the input.

#### Flexible Mode

- 1. Click the Flexible Mode button.
- 2. Configure the fields described in the tables below.
- 3. Configure the input.



Function Keys		
Area	Select the area is to be controlled by the function key.	
Function	Select the function to be performed by this key in this area	
Area	Select an area if the indicator module is located in a secure area.	

Visual Indication	
Indicator	There are 8 indicators / LEDs on the right and 8 indicators / LEDs on the left side.
Function	The function that is indicated by this LED.
Function On	Select the colour and the state for every indicator if the selected function is ON.
Function Off	Select the colour and the state for every indicator if the selected function is OFF.
Change function	Press this button to change the function for this indicator. The function can be enabled or used for a system, area, zone or keyswitch.
Audible Indications	
Alarms	Select if the alarms should be audible.
Entry / Exit	Select if entry / exit should be audible.
Key press	Select if keypress should be audible.
Deactivation	
Calendar	Select if indicator expander should be limited by calendar.
Mapping gate	Select if indicator module should be limited by a mapping gate.
Keyswitch	Select if indication module should be limited by a keyswitch.
Keypad	Select if indicator module should be limited to a valid PIN entered on a keypad. (see warning above)
Card reader	Select if indicator module should not be activated until a valid card/fob is presented to the built-in card reader.

# 11.2.4 Configuring a Keyswitch Expander

- Click on the keyswitch in the list of configured expanders.
  - $\Rightarrow$  The following dialog is displayed:

Configure the settings for this expander         Expander ID:       5         Type:       Key Switch [0 Input / 1 Output]         Serial #:       5         Description:       Receptikeyswitch         Latch:       Check if key position should be latched.         Latch Timer:       O         Calendar:       Check if key position should be latched.         Latch Timer:       O         Calendar:       Choc Calendar>         Mapping Gate:       NONE	it Expander					
Expander ID: 5   Type: Key Switch [0 Input / 1 Output]   Serial #: 5   Description: Receptikeyswitch   Latch : Check if key position should be latched.   Latch Timer: O   Calendar: Check of they position of latch in seconds (0 - 9999, 0 means latch lasts until key is turned the other way).   Calendar: No Calendar>   Mapping Gate: NoNE	Configure the settings	for this expander				
Type:       Key Switch [0 Input / 1 Output]         Serial #:       5         Description:       ReceptiKeyswitch         Latch:       Check if key position should be latched.         Latch Timer:       0       Enter duration of latch in seconds (0 - 9999, 0 means latch lasts until key is turned the other way).         Calendar:           Mapping Gate:       NONE         dications:       Outputs       Keyswitch         LED       Function       ON         Left            ON OFF          Light	Expander ID :	5				
Serial #:       5         Description:       Receptikeyswitch         Latch:       □       Check if key position should be latched.         Latch Timer:       □       Enter duration of latch in seconds (0 - 9999, 0 means latch lasts until key is turned the other way).         Calendar:           Mapping Gate:           NONE          dications       Outputs       Keyswitch Functions         statel Indications           LED       Function       ON         Left                  Left                    Right	Type :	Key Switch [0 Input / 1 Outp	ut]			
Description: ReceptiKeyswitch   Latch: Check if key position should be latched.   Latch Timer: 0   Calendar: Enter duration of latch in seconds (0 - 9999, 0 means latch lasts until key is turned the other way).   Calendar: <no calendar="">   Mapping Gate: NONE</no>	Serial # :	5				
Latch: Check if key position should be latched.   Latch Timer: Image: Check if key position of latch in seconds (0 - 9999, 0 means latch lasts until key is turned the other way).   Calendar:    Choc Calendar:    Choc Calendar:    Mapping Gate: NONE	Description :	ReceptiKeyswitch				
Latch Timer: <ul> <li>Enter duration of latch in seconds (0 - 9999, 0 means latch lasts until key is turned the other way).</li> </ul> Calendar: Mapping Gate: MONE Mone    Calendar: Mone Mo	Latch :	Check if key po	sition should be latch	ed.		
Calendar: <no calendar="">   Mapping Gate: NONE</no>	Latch Timer :	0 Enter duration turned the oth	of latch in seconds (0 er way).	- 9999, O m	eans latch lasts unti	il key is
Mapping Gate :       NONE         dications       Outputs       Keyswitch Functions         sual Indications       Indications         LED       Function       ON       OFF         Left <not assigned="">       Image: Contract of the state of</not>	Calendar :	<no calendar=""></no>	<ul> <li>Q</li> <li>Q</li> <li>Q</li> </ul>			
dications Outputs Keyswitch Functions  tual Indications  LED Function ON OFF  Left <not assigned="">  Right <not assigned=""></not></not>	Mapping Gate :	NONE	~			
LED     Function     ON     OFF       Left <not assigned="">     Image: Control of the second secon</not>	sual Indications					
Right <not assigned=""></not>	LED	Function	ON	OFF	- <b>R</b> L	
	Right			0	<u>x</u>	
	rught	and houghour.	0	<u> </u>		

#### • Configure the fields described in the tables below.

Description	Enter a description for the keyswitch expander.
Key Options	
Latch	Select if key position should be latched.
Latch timer	Enter duration of latch in seconds (0 - 9999, 0 means latch lasts until key is turned the other way).
Areas	
Location	Select the area where the keyswitch is located.
Visual Indications	
Indicator/LED	There is 1 indicator / LED on the right and 1 indicator / LED on the left side.
Function	The function for this indicator / LED.
Function On	Select the colour and the state for every indicator if the selected function is ON.
Function Off	Select the colour and the state for every indicator if the selected function is OFF.
Change function	Press this button to change the function for this indicator. The function can be enabled or used for a system, area, zone or keyswitch.
Deactivation	
Calendar	Select if the keyswitch module should be limited by calendar.
Mapping gate	Select if the keyswitch module should be limited by a mapping gate.
Output	
Output <i>x</i>	Configure and text the outputs for the keyswitch. See Outputs [ $\rightarrow$ 97] for more details
Keyswitch Function	IS

Centre, Right and	Select the Function that that this keyswitch position will perform and the relevant
Left Positions	Area.



## 11.2.5 Re-assigning expanders





Expanders & Keypads

The order in which expanders are listed and identified on the X-BUS is performed during the initial installation of the panel or whenever a cold start of the panel is performed.

To re-assign an expander to a different location on the X-BUS:

- 1. Click the button Re-Assign Expanders in the window Configured Expanders.
- 2. Select the expander you wish to re-assign by using the up and down arrows on the right of the window.
- 3. Click the button Re-assign Now.
  - A pop up message will be displayed informing you that the expander will be re-assigned.
- 4. Click YES.
- ➡ The configured expander list window is displayed showing the new order of the expanders.

Re-assigning expanders allows you to mix and match the expander IDs to match the physical addition or replacement of an expander - i.e. an installer may have physically connected an I/O expander between existing expanders with IDs 1 & 2. The new expander might be the 6th expander on the X-BUS giving an ID pattern of 1, 2, 6, 3, 4, 5. By re-assigning expander IDs to match the physical order of expanders on the panel you can keep track of the actual configuration. The advantage of this is as follows:

- You may wish to re-order expanders of the same type to match the programming correctly on the panel – i.e. the configuration of the third I/O expander in your configuration file may need to sent to the second I/O expander on the panel.
- If you do a cold start of your system, the configuration data of all other expanders won't be lost or overwritten as the expander numbering matches the physical order of the expanders.

## 11.2.6 Editing X-BUS settings

Panel Settings



Expanders & Keypads

- 1. Click the button Settings in the window Configured Expanders.
- 2. Configure the fields as described in the table below.
- 3. Click OK.

Addressing Mode :	Manual
X-BUS Type	Loop
Retries	25 Attempted retransmissions in case of interference. (Default is 25).
Timeout	10 Seconds a connection interference must be present before alert reported (Default is 10

Addressing Mode	Select if the Expander is either manually or automatically addressed on the X-BUS .
X-BUS Type	Select the type of X-BUS configuration (Loop or Spur) from the drop down list. If this data is read from the panel, changed and then send back to the panel – the actual configuration will remain unchanged unless an installer on site has physically re-wired the X-BUS to match the programmed configuration.
Retries	Select the number of communication retries on the X-BUS in the event that there is electrical interference on the installation site $(1 - 99)$ : default is 25).
Timeout	Select the number of seconds for which connection interference is present before an X-BUS communications fault is reported.



 RS485 Closed Loop (Ring) configuration. Communication is bi-directional for all expanders (SPC5000 / SPC6000 only).
 RS485 Open Loop (multi-drop) configuration. Expanders at the end of the open loop.

It is advisable to be aware of the physical configuration of the installation before programming these settings and sending them to the panel. The electrical characteristics of an installation may require some adjustment of the X-BUS retries and timeout parameters to deliver optimum performance.

# 11.3 Keypads

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## 11.3.1 Adding a keypad

Panel Settings



- 1. Click the tab Keypad.
- 2. Click the button Add New Keypad.
  - ⇒ The following window will be displayed:

Add New Expander	
Select Expander	type details
Expander ID2	2
Serial # :	2
Description :	Keypad 1t Floor
Туре :	Keypad 💌
	OK Cancel
N.B. : When X-BUS addressing set to 'Manual', Expanders with an ID value greater than 63 will not have ANY zones assigned!	

3. Configure the following fields and click OK.

Expander ID	The number is presented for reference and can not be programmed.
Serial #	The serial number of an expander is located in the expander firmware and can not be programmed. The number listed in this field is used simply as a reference when adding the expander. The serial number field will be listed as <unassigned> in the expander list, if this information has not yet been uploaded from the panel.</unassigned>
Description	Enter a text describing the keypad (max. 16 characters). This text will also appear on the browser and keypad.
Туре	Select keypad.

# 11.3.2 Editing a Standard Keypad



- 1. Click one of the standard keypad identifying parameters.
- 2. Configure the fields as described in the table below.

lit Expander	
Edit Expande	n 👘 👘 👘
Configure t	ne settings for this expander
Expander ID : Type : Serial # :	1 Keypad [0 Input / 0 Output] 101806801
Function Keys	Image: Second state     Image: Second state       Imag
Location :	2 - ATM 1 Select secured area where the keypad is located. * N.B. If secure area is set to 'NONE' then exit entry will not operate on this
Select which are 1 [Area 1] - ✓ 2 [Area 2] - AT	as can be controlled through keypad : M 1
<b>О</b> К	Cancel

Description	Enter a unique description to identify the keypad.	
Function Keys (in idle state)		
Panic	Select Enable, Disable or Enabled Silent. If enabled, panic alarm is activated by pressing the 2 soft keys together.	
Verification	If you assign a verification zone to the keypad, when a panic alarm is triggered by pressing 2 soft keys together or by entering a duress code, audio and video events are activated.	
Visual Indications		
Backlight	Select when keypad backlight is on. Options are: - On after key is pressed; Always on; Always off	
Indicators	Enable or disable the LED's on the keypad.	
Setting state	Select if setting state should be indicated in idle mode.	
Audible Indications		
Buzzer	Enable or disable the buzzer on the keypad.	
Partset Buzzer	Enable or disable buzzer during exit time on Partset.	

Keypress	Select if the speaker volume for the key presses should be activated.
Deactivation	
Calendar	Select if the keypad should be limited by calendar. See Calendar [ $\rightarrow$ 194].
Mapping gate	Select if keypad should be limited by a mapping gate.
Keyswitch	Select if keypad should be limited by a keyswitch.
PACE Entry	Tick this box to disable the keys on the keypad during the entry time when a PACE is configured on the keypad.
Areas	
Location	Select the secured area where the keypad is located.
Areas	Select which areas can be controlled through keypad.
Options	
Delay Fullset	Select to configure a delayed set across all keypads. The location of the keypad is ignored and all areas will perform a full exit time count down.



## 11.3.3 Editing a Comfort Keypad

Panel Settings



Expanders & Keypads

- 1. Click one of the comfort keypad identifying parameters.
- 2. Configure the fields as described in the table below.
| Edit Expander   |   |  |  |
|---|---|--|--|
| Configure the setting                                     | gs for this expander  |  |  |
| Expander ID :   | 2   |  |  |
| Type:   | Comfort Keypad [0 Input / 0 Output]                               |  |  |
| Serial # :  | 102   |  |  |
| Description :   |   |  |  |
| 🐺 Function Keys 💡 Visua                                   | al Indication 🛛 👾 Audible Indication 🛛 🛕 Deactivation 🗍 🐺 Areas 📄 |  |  |
|   |   |  |  |
|   |   |  |  |
| Panic   | Enabled 🗾 Using 2 soft keys                                       |  |  |
| Fire  | Fire 🗌 Fire Alarm (using 2 soft keys)                             |  |  |
| Medical 🔽 Medical Alarm (using 2 soft keys)               |   |  |  |
| <b>Fullset</b> Fullset by pressing function key F2 twice. |   |  |  |
| Partset A   | Partset A 🛛 🗌 Partset A by pressing function key F3 twice.        |  |  |
| Partset B   | Partset B by pressing function key F4 twice.                      |  |  |
|   |   |  |  |
|   |   |  |  |
|   |   |  |  |
|   |   |  |  |
| 🔮 ок 🛛 🗶 с  | elete Cancel  |  |  |

Description	Enter a unique description to identify the keypad.	
Function Keys (in idle state)		
Panic	Select Enable, Disable or Enabled Silent. If enabled, panic alarm is activated by pressing F1 and F2 soft keys together.	
Fire	Enable to allow fire alarm to be activated by pressing F2 and F3 soft keys together.	
Medical	Enable to allow medical alarm to be activated by pressing F3 and F4 soft keys together.	
Fullset	Enable to allow Fullset to be activated by pressing F2 key twice.	
Partset A	Enable to allow Partset A to be activated by pressing F3 key twice.	
Partset B	Enable to allow Partset B to be activated by pressing F4 key twice.	
Verification	If you assign a verification zone to the comfort keypad, when a Medical, Panic or Fire event is triggered, or if a user enters a duress code, then audio and video events are activated.	

Visual indications	
Backlight	Select when keypad backlight is on. Options are: - On after key is pressed; Always on; Always off.
Backlight Level	Select the intensity of illumination of the backlight. Range 1 - 8 (High).
Indicators	Enable or disable the LED's on the keypad.
Setting state	Enable if setting state should be indicated in idle mode. (LED)
Logo	Enable if logo should be visible in idle mode.
Analog Clock	Select position of clock if visible in idle mode. Options are Left Aligned, Center Aligned, Right Aligned or Disabled.
Emergency	Enable if Panic, Fire and Medical function keys should be indicated in the LCD display.
Direct Set	Enable if Fullset/Partset function keys should be indicated in the LCD display.
Audible indications	
Alarms	Select speaker volume for alarm indications or disable sound.
Entry/Exit	Range is 0 – 7 (Max volume)
Chime	Select speaker volume for entry & exit indications or disable sound.
Keypress	Range is 0 – 7 (Max volume)
Voice Annunciation	Select speaker volume for chime or disable sound.
Partset Buzzer	Range is 0 – 7 (Max volume)
Deactivation	
Calendar	Select if the keypad should be limited by calendar. See Calendar.
Mapping gate	Select if keypad should be limited by a mapping gate.
Keyswitch	Select if keypad should be limited by a keyswitch.
PACE Entry	Tick this box to disable the keys on the keypad during the entry time when a PACE is configured on the keypad.
Areas	
Location	Select the secured area where the keypad is located.
Areas	Select which areas can be controlled through keypad.
Options	
Delay Fullset	Select to configure a delayed set across all keypads. The location of the keypad is ignored and all areas will perform a full exit time count down.

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#### NOTICE

An area should be assigned to a keypad only if the keypad is inside the assigned area, and if an entry/exit route is defined. If an area is assigned, when the particular area is set or unset then entry and exit timers are used (if configured). Other features related to entry/exit routes also become available. If no area is assigned, the area is set or unset immediately and other entry/exit features are not available.

## 11.4 Door Controllers

For general information on door controllers please refer to the SPC42xx/43xx/52xx/53xx/62xx/63xx Installation&Configuration Manual.

### 11.4.1 Adding a door controller





- 1. Click the **Door controllers** tab.
- 2. Click the button Add New Door Controller.
- **3.** See table below for further information.

Add New Expand	ler 🚽
Select Expander	type details
Expander ID2	2
Serial # :	2
Description :	Front door
Туре :	Door Controller
	OK Cancel
N.B. : When X-BUS addr 63 will not have ANY zo	essing set to 'Manual', Expanders with an ID value greater than ones assigned!

Expander ID	The number is presented for reference and can not be programmed.
Serial #	The serial number of an expander is located in the expander firmware and can not be programmed. The number listed in this field is used simply as a reference when adding the expander. The serial number field will be listed as <unassigned> in the expander list, if this information has not yet been uploaded from the panel.</unassigned>
Description	Enter a text describing the door controller (max. 16 characters). This text will also appear on the browser and keypad.
Туре	Select Door Controller.

### 11.4.2 Editing a door controller

Panel Settings



Expanders & Keypads

1. Click a door controller from the list.

- 2. Configure the fields as described in the table below.
- 3. Click OK.

🧶 Edit Expander				X
Edit Expande	:r			
Configure t	ne settings for this e	expander		
Expander ID :	1			
Type :	Door Controlle	er [4 Input	/ 2 Output]	
Serial # :	115834801			
Description :	1			
Door Options				Ĩ
Door I/O 1 :	Door 1	<b>~</b> (	📝 Edit	
Door I/O 2 :	Zones/Outputs		📝 Edit	
Reader 1 :	Profile 1	*		
Reader 2 :	Profile 1	~		
🕜 ок	X Delete	Can	:el	

<u>i</u>

For naming and identifying:

In loop configuration, each expander is numbered consecutively from the first (expander connected to the 1A 1B on the controller) to the last (expander connected to the 2A 2B on the controller).

Example for SPC63xx: Expanders, when numbered 1 through 63, are allocated zones (in groupings of 8) in subsequent identities of 1 to 512 (the greatest number in zone identification is 512). Therefore, any expander named or identified by a number greater than 63 has no allocated zones.

Expander ID	ID of the door controller set with the rotary switches.		
Туре	Type of the door controller.		
S/N	Serial number of the door controller.		
Description	Description of the door controller		
Door I/O 1	• If a door is assigned to the door I/O, select the corresponding door number.		
Door I/O 2	If the two inputs and outputs are configurable, select <b>Zones / Outputs</b> .		
	<ul> <li>If a door number is selected for the door I/O, the door settings can be changed by clicking on the edit button. This is equal to Settings &gt; Doors.</li> </ul>		

	• If <b>Zones / Options</b> is selected, the two zones and the one output can be configured by clicking the edit button.
Profile 1	For readers with a green and a red LED.
Profile 2	For VANDERBILT readers with a yellow LED (AR618X).
Profile 3	Profile 3 is used with HID readers that send a PIN to the panel as a card reading with a predefined site code (0)
Profile 4	Profile 4 is used with HID readers that send a PIN to the panel as a card reading with a predefined site code (255).
Profile 5	Select to enable Sesam readers. It is also recommended that you select the Override Reader Profile option to provide feedback on the setting process.

#### Editing Zones/Outputs for a Door I/O

- 1. Select a Zone/Output for the door I/O.
- 2. Click the Edit button.
- The 2 inputs and the output belonging to this door I/O can be configured as normal door inputs and outputs. See page [→ 139].
- 4. In order to use the inputs, they have to be assigned to a zone number.

# 12 Wireless

Wireless sensor detection (868 MHz) on the SPC panel is provided by wireless receiver modules which may be factory fitted on the keypad or on the controller, or by installing a wireless expander.

Panel Settings	
	N. <b>V</b> . M.
	Wireless

- 1. Click the List tab.
- 2. See table below for further information.

	ID	Type	Zone	Supervise	
1	26661450	Magnetic Contact	30 - []	ON	
2	59132927	PIR	32 - 🛛	ON	
3	26661470	Magnetic Contact	33 - [Test 1]	ON	
4	26662209	Magnetic Contact	36 - [Test 2]	ON	
5	26329994	Magnetic Contact	38 - [Test 3]	ON	

Sensor	The number of the sensor enrolled on the system (1 = first, 2 = second, etc.)
ID	A unique identity number for that sensor.
Туре	The type of wireless sensor detected (magnetic contact, inertia/shock, etc.)
Zone	The zone to which the sensor has been enrolled.
Battery	The status of the battery in the sensor (if fitted).
Supervise	The status of the supervisory operation (OK = supervisory signal received, Not Supervised = no supervisory operation).
Signal	The signal strength received from the sensor (01=low, 09=high). <b>Note:</b> Although it is not possible to enroll a device with a signal strength less than 3, devices whose signal drops below 3 after enrollment are not dropped.

#### Performable actions

Remove wireless sensor	Click this button to remove the highlighted wireless sensor from the panel. Confirm the action.
View Sensor Log	Click to view the wireless sensor Log. See page [ $\rightarrow$ 115].
Show Unenrolled Wireless Devices	Click to view the list of unenrolled wireless sensors detected by the panel. See page [ $\rightarrow$ 115].

# 12.1 Log - Wireless sensor X

To view a quick log of events for a wireless sensor:

- **1.** Highlight a wireless sensor.
- 2. Click the View Sensor Log button.
- **3.** See table below for further information.

Date/Time	The date and time of the logged event.			
Receiver	The wireless receiver location, i.e. wireless module mounted on the keypad, controller or wireless expander.			
Signal The signal strength received from the sensor (01=low, 09=high).				
Status	The physical status of the sensor.			
Battery	The status of the battery connected to the sensor (OK, Fault).			

## 12.2 Unenrolled devices

To view a list of all wireless devices that have been detected on the panel but have not yet been enrolled:

- 1. Click the Show Unenrolled Wireless Devices button.
- 2. See table below for further information.

Sensor ID	The ID number that uniquely identifies that sensor. This number will not be accessible until such time as a signal form the wireless device has been received by the SPC panel			
Туре	The type of wireless sensor detected (magnetic contact, inertia/shock, etc.).			
Received	The date and time stamp of the last received signal from that sensor.			
Status	The physical status of the sensor.			
Receiver	The location of the wireless receiver that detected the signal from that wireless sensor.			
Signal	The signal strength received from the sensor (01=low, 09=high).			
	<b>Note:</b> If the signal strength is less than 3, the wireless sensor will not be displayed in the <b>Unenrolled Wireless Devices</b> list.			

## 12.3 Changing wireless settings

1. Click the **Settings** tab to display Wireless Settings page.



#### 2. See table below for further information.

Antenna	Select the type of antenna connected to the wireless module (internal or external) from the drop down menu. The type of antenna required for the wireless module depends on the type of wireless module fitted.					
Supervision	Select whether a wireless sensor that is reported as missing registers a tamper condition on the signet panel. A wireless sensor is reported as missing when no supervision signal has been received from the sensor for a period greater than the programmed <b>Wireless Lost</b> timer. See page [→ 74].					
Filter	Tick to filter low strength RF signals.					
Detect RF Jam	Tick to activate an alert if RF interference is detected.					
RF FOB SOS	Select how the SOS buttons on the RF Fob should operate.:					
	• Disable					
	• Enable					
	Enabled Silent					
	User Medic					
	User Holdup					
	RF Output					
WPA Test Schedule	Enter a maximum period (in days) between WPA tests.					
Prevent Setting Time	Enter a time in minutes after which, if the sensor fails to report, a setting is prevented for an area where the wireless zone is.					
	<ul> <li>Alarm</li> </ul>					
	<ul> <li>Entry/Exit</li> </ul>					
	• Exit Term					
	Panic					
	Hold up					
	• Tamper					
	Lock Supervision					
	Seismic					

	All OK
	Setting Authorisation
	Lock Element
Device Lost Time	Enter a number of minutes after which the wireless device (sensor or WPA) device is reported as lost.

# 12.4 Configuring a WPA

i	NOTICE
	The WPA configuration and status page is displayed only if there is a wireless module fitted on the panel or any of its expanders, and the panel is licensed for the type of module(s) fitted.

A WPA is not assigned to a user. Usually, a WPA is shared by several people, for example, security guards working in shifts or, alternatively, WPAs may be permanently attached to a surface such as under a desk or behind a till. A maximum of 128 WPAs is allowed per panel.

To configure a WPA with SPC Pro, select **Settings/Wireless** and then the **WPA** tab.

General	Panel Settings - Wire	less			
Panel Settings	🕒 List 🔟 WPAs 🛠	• Settings			
System Settings	WPAI	Devices			
0===	10	WPA ID Name	Transmitter ID	• • • • • • • • • • • •	
LITT .	1		0	🗸 🗸	
Controller Inputs &	2		0	/ /	
Expanders & Keypads					
Wireless					
All Zones					
All Doors					
Areas		T Add New WPA	🕅 xN Add Range of W	/PAs	
Communications Advanced					

All configured WPAs are listed with a corresponding ID. Any key combinations for the WPA are also indicated on this page.

Click on the Add New WPA to add and configure a WPA.

Click on the Add Range of WPA to add and configure a range of WPAs.

### 12.4.1 Adding a WPA

To add a WPA to the system:

- Click the Add New WPA button in the main WPA Devices page.
- ⇒ The Configure WPA Device page is displayed for the new WPA.

Tr	ansmitter ID : 1		
WPA I	Device Name : WPA		
	Supervision : Enabled		
Tes	t periodically : TEnabled		
Diselau Test			
	Buttons	Function	
	Buttons Red	Function	
	Buttons Red Green	Function 	
	Buttons Red Green Yellow	Function  	
	Buttons Red Green Yellow Red + Green	Function	~
	Buttons Red Green Yellow Red + Green Red + Yellow	Function	~
	Buttons Red Green Yellow Red + Green Red + Yellow Green + Yellow	Function Panic Holdup	v
	Buttons Red Green Yellow Red + Green Red + Yellow Green + Yellow Red + Green + Yellow	Function Panic Holdup Suspicion Suspicion	v

• Configure the WPA using the following details:

Description/Name	Enter a Description or Name to uniquely identity a WPA.
Transmitter ID	The transmitter ID is printed on the WPA casing and can be entered manually here.
	You can also identify the ID remotely by pressing any button on the WPA and then clicking the <b>Learn</b> button. The panel automatically enters this ID in this field providing no other WPA is currently defined with it
Supervise	The WPA may be configured to send periodic supervision signals. Supervision is enabled on the WPA with a jumper.
	The supervision function also needs to be enabled on the panel for the particular WPA for correct supervision operation. If the panel does not get a supervision signal, it raises an alarm that is shown in the keypad and logged.
	If supervision is not enabled, the WPA sends out a supervision message about every 24 hours to transmit the WPA battery status to the panel. This message is also randomized to decrease the chances of collision with other WPAs.
	Tick the Supervise box if supervision has been enabled for that particular

	WPA.			
Test	Tick the <b>Test</b> box if a periodic WPA test is required. The timeframe for periodic testing is configured on the Changing wireless settings page.			
Button Assignment	Use this section to assign functions to button combinations. Available functions are Panic, Panic silent, Holdup, Suspicion, RF User Output and Medical. More than one combination can be selected for the same function. The screen above shows the defaults for the panel for a Financial installation:			
	Yellow - Suspicion			
	Red + Green - Holdup			
	For Commercial or Domestic installations, the default is:			
	Red + Green - Panic			
	<b>Note:</b> If no function is assigned to a button combination, it is still possible to use that combination by using a trigger. See Triggers			

• Click on the **Save** button to save the settings.

#### See also

B Changing wireless settings [→ 115]

# 13 Configuring zones, doors and areas

## 13.1 Editing a zone

Engineer and User actions include Log, Isolate/Deisolate and Soak/Desoak for each zone as allowable by the Security Grade EN 50131 Grade 2 and EN 50131 Grade 3.



- 1. Click the tab List.
  - ⇒ The following window will be displayed:

#### Zone Configuration

Zone		Input	Zone Text	Туре	Area	Attributes				
	1	Controller - Input 1	Front door	Entry/Exit	1 - Bedroom 1					
	1	Controller - Input 2	Sitting room	Alarm	1 - Bedroom 1					
	<b>V</b>	Controller - Input 3	Kitchen	Alarm	1 - Bedroom 1					
	<b>V</b>	Controller - Input 4	Upstairs front	Alarm	1 - Bedroom 1					
	1	Controller - Input 5	Upstairs rear	Alarm	1 - Bedroom 1					
	1	Controller - Input 6	PIR Hallway	Alarm	1 - Bedroom 1					
	1	Controller - Input 7	PIR Landing	Alarm	1 - Bedroom 1					
	1	Controller - Input 8	Panic button	Panic	1 - Bedroom 1					
	1	Expander 1 - Input 1		Alarm	1 - Bedroom 1	×				
D	1	Expander 1 - Input 2		Alarm	1 - Bedroom 1					
1	1	Expander 1 - Input 3		Alarm	1 - Bedroom 1					
2	1	Expander 1 - Input 4		Alarm	1 - Bedroom 1					
3	1	Expander 1 - Input 5		Alarm	1 - Bedroom 1					
4	1	Expander 1 - Input 6		Alarm	1 - Bedroom 1					
5	1	Expander 1 - Input 7		Alarm	1 - Bedroom 1					
5	1	Expander 1 - Input 8		Alarm	1 - Bedroom 1					
7	1	Door Controller 1 - Inp	Door 1	Entry/Exit	1 - Bedroom 1					
в	1	Door Controller 1 - Inp	Door 2	Entry/Exit	1 - Bedroom 1					
)	1	Wireless - ID58753636	PIR 1	Alarm	1 - Bedroom 1					
)	1	Wireless - ID26454045	Window 1	Alarm	1 - Bedroom 1					
1	1	Wireless - ID26451771	Floor 2	Alarm	1 - Bedroom 1					

- 2. Click a zone from the list.
  - ⇒ The following window will be displayed.
- 3. Configure the fields as described in the table below.
- 4. Click OK.

Zone Con	figura	ation				x
Zone	Cor Edit t	n <b>fig</b> he zone det	tails			
		Zone :	1			
	De	escription :	Front door	3		
		Trank	Caraballan	7		<u>k</u>
		Input :	Controller -	Input	1	
	Type :		Keyarm			
		Area :	1 - Recepti	on		2.
		Calendar :	<no calen<="" td=""><td>dar&gt;</td><td></td><td>- 0. 19</td></no>	dar>		- 0. 19
	lartic	ation Zone	1	N CONT		
	·ernc					
Attrib	utes	8				
	₽				22	Open Only
	(a)				ď	Report Only
	12					Einal Exit
	4			1	2	Keyarm Fullset
	8			V	$\mathscr{P}$	Keyarm Unset
	×2				E	Shunt
	4				1	Tech Zones Report
V	×	Inhibit			1 m	Tech Zones Display
1	말	Normally C	Dpen		1?	Tech Zones Audible
					Ó	Tech Zones Delay
1	省	Log				Armed Report Only
	04	Frequent	Jse		10	Fire Pre-alarm
	Ř	Exit Open		E	1	Fire Recognition
	2			H	(Ales	Unset Local
V	õ	Delayed S	etting	1	Sur Sur	Force Set
					🕜 ОК	Cancel
7000		The number is	presented for	referen	co and r	can not be programmed
Zone Text		Enter a text (m	ax 16 charac	ters) the	t serve	s to uniquely identify the zone
Input		The physical in	nput is display	ed for re	ference	and is not programmable
Туре		Select a type of	of zone from th		down m	enu (see page [→ 260]).
Area		Only if (multipl	e) <b>Areas</b> is ac	tivated.	Select a	in area to which the zone is assigned

7.100	from the drop down menu.
Calendar ①	Select if necessary the desired calendar (see page [→ 194]). For Security Grade 2 / 3 a calendar can be assigned only to zones of type Exit Terminator, Technical, Key Arm, Shunt and X-Shunt. For Security Grade Unrestricted a zone of any type can be associated with a calendar.

AttributesTick the relevant checkbox for the zone. Only attributes that apply that type of<br/>zone will be presented (see Zone Attributes [ $\rightarrow$  262])

Areas

## 13.2 Adding / Editing an area



- ▷ Only if (multiple) **Areas** is activated.
- 1. Click the List tab.
  - ⇒ The following window will be displayed:

Standard         45         45           ATM         ATM 1         -         -	Area	Type	Text	Entry	Exit	Linked	Calendar	Triggers
	1	Standard	ATM 1	45	45			

- 2. The Quick configure ATM/Vault areas [→ 137] button provides a shortcut to adding multiple ATM and Vault areas with default configuration settings.
- 3. Click on the Add Area button to add a single area or click an area from the list to edit.
  - ⇒ The following window will be displayed.

🛱 Area Configuration			×
Area 12 Edit			
Configuration details for an	ea		
Area : Description : Area Type : Entry Time : Exit Time : Disable Exit Time :	12 Standard Area 0 ÷ Seco 0 ÷ Seco Disabled	a 💌 nds nds	
PartSet Options The Linked Are	as 🔒 Set/Unset	Schedule Other	
Foshlo Dartsot			
Partset Access			
Partset Fotry/Exit			
Partset Local			
No Bells			
Triggers	X Delete	] [ ок ] [	Cancel

- 4. Enter a unique description to identify the area.
- 5. Select the area type from one of the following:
  - Standard Suitable for most areas.
  - ATM Provides settings and defaults relevant to ATMs.
  - Vault Provides settings and defaults relevant to vaults.
  - Advanced Provides all area settings (Standard, ATM and Vault).
- Configure the settings for each installation type as per the following sections:

## 13.2.1 Entry/Exit

r.: )		
All Okay :		
'All Okay' required :	A     A	
'All Okay' verification Time :	20	
'All Okay' event :	Panic (Silent)	× 🗟
Miscellaneous :		
<b>RF Output Time :</b>	30 🕂 🚺	
Fob Unset Entry :		
Access denied on alarm :		
Prevent Setting :		
Prevent Unsetting :		
Setting Authorization :	0	× 3

Configure the following Entry/Exit settings:

Entry time	The time period (in seconds) allowed for the user to UNSET the alarm after opening an entry/exit zone of an armed system. The entry time applies to all entry/exit zones in that area (default: 45 seconds).	
Exit time	The time (in seconds) allowed for a user to leave a protected area before setting is complete. The exit time will be counted down at the keypad as the buzzer beeps to indicate to the user that the system will arm when the exit timer reaches zero. The exit time applies to all entry/exit zones in that area (default: 45 seconds).	
Disable Exit Time	Select if no exit timer is required and setting is activated by 'Exit term' zone or 'Entry exit' zone with 'Final exit' attribute. See Timers [ $\rightarrow$ 74].	
Fob Unset Entry	FOB will only unset when entry timer is running. Default is enabled.	
Access Denied on Alarm	Access is temporarily denied to the area for the amount of time specified in the Lockout Post Alarm timer.	
Prevent Setting	If enabled, setting prevented from keypad	
Prevent Unsetting	If enabled, unsetting prevented from the keypad.	
Setting Authorisation	Used for configuring Blocking Lock operation. Options are:	
	• Disabled	
	• Set	
	Unset	
	Set and Unset	
	If the Disabled option is selected (default) then the system will set and unset normally with no change of operation.	
	If the Set option is selected, a "Setting Authorisation" signal is required to set this area which can be received from keypads or a zone input (see Authorised Setting of the Blocking Lock) The user cannot set the system from the keypad. Any area that requires setting authorisation will appear as locked on the comfort keypad and will not appear on the	

standard keypad when setting.
If the Unset option is selected, the user cannot unset the area from keypads but can use the keypad to generate the setting authorization signal.
For the set and unset options, the user will be unable to change the state of the area at any stage from the keypad.
A timer for setting authorisation can be configured. See Timers [ $\rightarrow$ 74].

## 13.2.2 Partset Options

R PartSet Options	[] Linked Areas	Set/Unset	Schedule Oth	ier
Partset Options				
		Partset A	Partset B	
Enat	ble Partset		~	
Parl	tset Timed			
Part	set Access			
Partset	Entry/Exit			
Pa	rtset Local			
	No Bells			

Configure the operation of particular zones for both Partset A and Partset B modes as detailed below:

Partset Enable	Enable PartSet for A and B operation as required.
Partset Timed:	Tick the relevant checkbox (Partset A or B) to apply the exit timer to the Partset A or B mode.
Partset Access:	Tick the relevant checkbox to change access zones into entry/exit type zones for either Partset A or B operation. This feature is useful for a domestic installation where a Passive Infrared (PIR) sensor is located in the hallway. If the user partsets the system at night and returns downstairs during the night, he/she may unintentionally activate the PIR sensor in the hallway and trigger the alarm. By setting the partset access option, the buzzer will sound for the entry time period when the PIR sensor is activated thereby warning the user that the alarm will activate if no action is taken.
Partset Exit/Entry:	Tick the relevant checkbox to change the behaviour of entry/exit zones to alarm zones when in Partset A or B mode. This feature is useful for a domestic installation when the system has been set in partset mode. If the user partsets the system at night he/she may wish the alarm to activate immediately if the front or back door is opened during the night.
Partset Local:	Tick the relevant checkbox to restrict the reporting of alarms in Partset Mode to local reporting only (No remote reporting).
No Bells	If ticked, no bells will be activated for partset A or B.

### 13.2.3 Linked Areas

🙀 PartSet Options 🚹	Linked Areas 🔠 Set/Unset 🞦 Schedule Other
Linked Area Optio	ns :
🔲 1 [Area 1] - Receptio	n
2 [Area 2] - Area 2	
🗌 3 [Area 3] - Area 3	
🗌 4 [Area 4] - Area 4	
🗌 5 [Area 5] - Area 5	
🗌 6 [Area 6] - Area 6	
/[Area /] - Area 6	100
Linked Area Options	
Fullset :	Fullset this area when all linked areas Fullset.
Fullset All :	Fullset all linked areas when this area Fullset.
Prevent Fullset :	Prevent this area from Fullset if any linked areas are not Fullset.
Prevent Fullset All :	Prevent linked areas from Fullset if this area is not Fullset.
Unset :	Unset this area when any linked area unset.
Unset All :	Unset all linked areas when this area unset.
Prevent Unset :	Prevent this area from Unset if any linked areas are Fullset.
Prevent Unset All :	Prevent linked areas from Unset if this area is Fullset.
Authorise Setting :	Authorise Setting for linked areas

This section enables you to link areas for setting and unsetting purposes:

Fullset	Fullset this area when all linked areas are Fullset.	
Fullset All	Fullset all areas when this area is Fullset.	
Prevent Fullset	Prevent this area from Fullset if all linked areas are Fullset.	
Prevent Fullset All	Prevent linked areas from Fullset if this area is not Fullset.	
Unset	Unset this area when all linked areas are Unset.	
Unset All	Unset all areas when this area is Unset.	
Prevent Unset	Prevent this area from Unset if any linked areas are Fullset.	
Prevent Unset All	Prevent linked areas from Unset if this area is Fullset.	
Authorise Setting	Enable authorised setting for linked areas. Refer Authorised Setting of the Blocking Lock.	
Linked Areas	Click on the areas that you wish to link to this area.	

### 13.2.4 Schedule

Scheduler :	<no calendai<="" th=""><th>r&gt; 🔽 🚺</th><th>al [1]</th></no>	r> 🔽 🚺	al [1]
	Unset : 🛛 🔽	3	
	Fullset : 🔲	3	
Time	Locked:	3	
Vault	Access: 0	Mins.	3
Yault	Access: 0	Mins,	6
Vault Reporting :	Access : 0	Mins,	۵
¥auli Reporting :	Access : 0 Enabled	Mins,	٦
Yauli Reporting : Early to Set :	Access : 0	Timer	<u>ک</u>
Yauli Reporting : Early to Set : Late to Set :	Access : 0	Mins.	
Yauli Reporting : Early to Set : Late to Set : Early to Unset :	Access : 0	• Mins, •	

### Configure scheduling with the following settings:

Calendar	Select a calendar to control scheduling.
Unset	Select if area should automatically Unset as per the time specified in the selected calendar.
Fullset	Select this option to Fullset the area as per the time specified in the selected Calendar. The area will also set when the Unset Duration or Delay Interval has elapsed (See Setting and Unsetting [ $\rightarrow$ 128] section). If the Unset Duration overlaps the scheduled time, the area will use the calendar settings.
Time Locked	Select this option to time lock the area as per the selected Calendar. (Vault type area in Financial mode only)
Vault Access	Enter the number of minutes $(0 - 120)$ to activate this timer at the end of a Time Locked Unset period. If the area is not unset after this timer expires, the area cannot be unset until the start of the next Time Locked Unset period. (Vault type area in Financial mode only)

### 13.2.5 Setting/Unsetting

Setting/Unsetting:	
Auto Set Warning Time :	* 10 🕂 👩
Auto Set Cancel :	*
Auto Set Delay :	*
Keyswitch :	* <none> -</none>
Delay Interval :	* 20 🕂 👌
Delay Counter :	* 3 🕂 👌
Dual PIN :	Disabled 🔹 🚺
Unset Duration :	* 0 🕂 👌 Minutes

The following parameters (with the exception of the Interlock parameter) are only relevant in the following cases:

- A Calendar is selected (see Schedule [→ 127]), or
- Unset Duration is enabled (has a value greater than zero), or
- Both of the above conditions are met.

Auto Set Warning	Enter the number of minutes to display a warning before Auto Setting. ( 0 - 30 )
	Note that the panel sets either at the scheduled time or at the time defined by the Delay Unset parameter. The first warning is displayed at the configured time before the scheduled time. There are further warnings starting at one minute before setting time.
Auto Set Cancel	Enables the user to cancel Auto Setting by entering a code in the keypad.
Auto Set Delay	Enables a user to delay Auto Setting by entering a code in the keypad.
Keyswitch	Enables Auto Setting to be delayed using Keyswitch Expander.
Delay Interval	Enter the number of minutes by which to delay Auto Set. (1 - 300 )
Delay Counter	Enter the number of times that Auto Setting can be delayed. $(0 - 99: 0 = unlimited)$
Delay Unset	Enter the number of minutes by which to delay an Unset. (0 = no delay)
Interlock Group	Select an Interlock Group to assign to this area. Interlocking only allows one area within the group to be Unset at any time. Typically used in ATM areas.

Unset Duration	If area is Unset for longer than this it will Set automatically. (Range $0 - 120$ mins: $0 = not$ active).
Dual PIN	If this option is enabled, two PINs are required to Set or Unset the area with the keypad. Both PINs must belong to users who have the required user right for the operation (Setting or Unsetting).
	If the second PIN is not entered within 30 seconds, or it is wrong, then the area cannot be Set or Unset.

#### Late Working Support

An example of using the setting and unsetting parameters is for late working situations where a calendar has been configured for automatic setting of a premises at a particular time but staff may need to work late on occasion and the automatic setting needs to be delayed.

Each delay is determined by the amount configured in the **Delay Interval** parameter, and the **Delay Counter** parameter determines the number of times that setting can be delayed. A user needs the correct value in the **Auto Set Delay** in order to use this feature.

There are three ways to delay setting:

- Entering the PIN on the keypad. DELAY is a menu option on the standard keypad. The buttons at the top of the comfort keypad are used to operate the delay feature
- 2. Using the keyswitch.
  - Turning the key to the right delays setting the system by the configured delay if the maximum number of times that setting can be delayed (**Delay Counter**) has not been exceeded. Turning the key to the left sets the delay to three minutes (non-configurable). This can be done regardless of how many times setting was delayed.
- Using a FOB, WPA or button which activates a Delay Autoset trigger action. (See page 172)

#### Temporary Unset

To allow a system to be temporarily unset in a time period specified by a calendar, the following three parameters need to be configured:

- 1. Calendar
  - A calendar needs to be configured and selected for this area.
- 2. Time Locked

This box needs to be ticked so that the area can be unset only when allowed as per the configured calendar.

3. Unset Duration

This parameter needs to be set to a value greater than zero to set an upper limit on the time the area will be unset.

The following screen shows these parameters configured with appropriate settings:

Setting/Unsetting : Warning Time : * 10 ÷ User Cancel : * User Delay : * User Delay : * Delay Interval : * 60 ÷ Delay Interval : * 60 ÷ Delay Limit : * 3 ÷ Dual Code :Disabled Delayed Unset : * 0 ÷ Minutes Unset Duration : * 10 ÷ Interlock : Not Interlocked interlock : Not Interlocked ked Areas Set/Unset Schedule Other cule (Calendar Set/Unset) : Scheduler : Schedule Other Cule (Calendar Set/Unset) : Scheduler : Unset : Scheduler : Unset : Unset : Unset : Scheduler : Unset : U	12	
Warning Time : * 10	2	setting/Unsetting :
User Cancel : * User Delay : * Keyswitch : * (NONE> Delay Interval : * 60 Delay Limit : * 3 Dual Code : - Disabled Delayed Unset : * 0 Delayed Unset : * 0 Delayed Unset : * 0 Delayed Unset : * 0 Minutes Unset Duration : * 10 Minutes Interlock : Not Interlocked Note: this setting applies to automatic Calendar setting and Timed Unset. ked Areas SetAUnset Schedule (Calendar Set/Unset) : Unset : Scheduler : Unset : Fullset : Time Locked : Minutes Schedule : Minutes Delayed Unset : Delayed Unset :		Warning Time : 🏾 🔹 🚺
User Delay: *V Keyswitch: *          Keyswitch: *       NONE>         Delay Interval: *       0         Delay Limit: *       3         Dual Code:       Disabled         Delayed Unset: *       0         Interlock:       Not Interlocked         Interlock:       Not Interlocked         Interlock:       Not Interlocked         Ked Areas       Set/Unset         Schedule       Other         edule (Calendar Set/Unset):       Inset:         Scheduler:       Vault         Unset:       Image: Imag		User Cancel : *
Keyswitch:   Pelay Interval:   * 60   Delay Limit:   * 3   Dual Code:   Disabled   Delayed Unset:   * 0   Minutes   Unset Duration:   * 10   Delayed Unset:   Not Interlocked   * 0   Minutes   Interlock:   Not Interlocked   * 0   <		User Delay : 🔭 🛛 👩
Delay Interval : * 60 Delay Limit : * 3 Dual Code : Disabled Delayed Unset : * 0 Delayed Unset : * 0 Unset Duration : * 10 Interlock : Not Interlocked Not Extra applies to automatic Calendar setting and Timed Unset. ked Areas Set/Unset Schedule Other edule (Calendar Set/Unset) : Scheduler : Schedule Other Unset : Schedule : Sched		Keyswitch: * <none></none>
Delay Limit : * 3		Delay Interval : * 60 🚽 诸
Dual Code :   Delayed Unset :   0   Minutes   Unset Duration :   10   Minutes   Interlock :   Not Interlocked   Interlock :   Not Interlocked   Interlock :   Not Interlocked   Interlock : Not Interlocked Interlock : Not Interlocked Interlock : Not Interlocked Interlock : Note: this setting applies to automatic Calendar setting and Timed Unset. Interlock : Schedule (Calendar Set/Unset) : Scheduler : Inset : <p< td=""><td></td><td>Delay Limit : * 3 📑 🚺</td></p<>		Delay Limit : * 3 📑 🚺
Delayed Unset : * 0   Minutes Unset Duration : * 10   Minutes Interlock : Not Interlocked   Mo - Note: this setting applies to automatic Calendar setting and Timed Unset. ked Areas Set/Unset Schedule Other edule (Calendar Set/Unset) : Scheduler : Vault   Mo Unset : Fullset : Time Locked : Minutes		Dual Code : 🚽 Disabled 🛛 🖌 🔀
Unset Duration : * 10 Interlock : Not Interlocked Note: this setting applies to automatic Calendar setting and Timed Unset. ked Areas Set/Unset Schedule Other edule (Calendar Set/Unset) : Scheduler : Vault Unset : Schedule Unset : Schedule Time Locked : Val		Delayed Unset : * 0 🚽 🐻 Minutes
Interlock : Not Interlocked		Unset Duration : * 10 📑 👌 Minutes
- Note: this setting applies to automatic Calendar setting and Timed Unset. ked Areas Set/Unset Schedule Other edule (Calendar Set/Unset) : Scheduler : Vault Vault Unset : Scheduler : Vault Unset : Scheduler : Vault		
edule (Calendar Set/Unset) : Scheduler : Vault Vault Vault Vault Fullset : O Time Locked : Vault Va	- Note: this	Interlock : Not Interlocked
Scheduler : Yault Vallt Vallt Vallt Scheduler : Schedu	- Note: this ked Areas (	Interlock : Not Interlocked
Fullset : 🔽 👩 (Time Locked : 💟 👩	- Note: this ked Areas ( edule (Cale	Interlock : Not Interlocked setting applies to automatic Calendar setting and Timed Unset Set/Unset Schedule Other endar Set/Unset) :
(Time Locked : 🔽 诸 )	- Note: this ked Areas ( edule (Cale	Interlock : Not Interlocked
	- Note: this ked Areas ( edule (Cale	Interlock : Not Interlocked

•	
All Okay :	
'All Okau' seguined .	
'All Ukay' verification Time :	20 🕂 🚺
'All Okay' event :	Panic (Silent) 🛛 🖌 🚺
Miscellaneous :	
<b>RF Output Time :</b>	30 🛨 诸
Fob Unset Entry :	
Access denied on alarm :	
Prevent Setting :	
Prevent Unsetting :	
Setting Authorization :	

# 13.2.6 All Okay

All Okay Required	If selected, user must confirm 'All okay' input or silent alarm is generated. See Editing a Zone [→ 120] for details on configuring an 'All Okay' zone input.
All Okay Time	Time (in seconds) in which 'All okay' must be confirmed before alarm is raised. (Range 1 – 999 seconds)
All Okay Event	Select the event type to be sent when the 'All okay' timer expires. Options are Panic (Silent), Panic and Duress.

### 13.2.7 Reporting

7.			
Scheduler :	Summer	× .	
La desta de la companya de la company	lloset ·	2	
	Fulleet ·		
Time			
1000	LUCKEU:	0	
11 A	- Time	A Constant of	
Yault Acces	s Timer : 0	🕂 Mins.	de la
Vault Acces Reporting :	is Timer : 0	Mins.	۵
Vault Acces	s Timer : 0 Enabled	Mins.	۵
Vault Acces Reporting : Early to Set :	Enabled	Mins,	6
Vault Acces Reporting : Early to Set : Late to Set :	Enabled	Mins, <u>Timer</u> 30 + 30 +	۵ ۵
Vault Acces Reporting : Early to Set : Late to Set : Earl to Unset :	Enabled	Mins, Timer 30 + 30 + 30 +	6 6 6

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The Reporting configuration settings are applicable for Standard Areas in Commercial and Financial installations only and are only relevant if a calendar has been selected. (See Schedule [ $\rightarrow$  127] section)

These settings enable a report to be sent to the Control Centre or nominated personnel if the panel is Set or Unset outside scheduled calendar times.

Early to Set	Enables a report to be sent if the panel is manually Fullset before a scheduled Set and before the number of minutes entered in the Timer field.
Late to Set	Enables a report to be sent if the panel is manually Fullset after a scheduled Set and after the number of minutes entered in the Timer field.
Early to Unset	Enables a report to be sent if the panel is manually Unset before a scheduled Unset and before the number of minutes entered in the Timer field.
Late to Unset	Enables a report to be sent if the panel is manually Unset before a scheduled Unset and before the number of minutes entered in the Timer field.

Reporting is done via SMS or to the ARC via SIA and Contact ID. An event is also stored in the system log.

Only events configured for late or early reporting for the area will be reported. Event reporting must also be enabled for an ARC or SMS, as described in the following sections.

### Enabling Reporting of Unusual Setting/Unsetting for an ARC

To configure event reporting for an ARC, select **Communications>ARC** to display the ARC Filters page.

Communications	
🧔 ARC Filters	
ARC Filters	
Configure Alarm F	Reportina Centre settinas
Event Filter	
Alarms	Alarm Activation
Alarm Restores	Reported alarms being restored
Confirmed Alarms	Alarms confirmed by multiple zones
Faults	Fault and Tamper activations
Fault Restore	Fault and Tamper restores
Setting	Setting and Unsetting
Inhibits	Inhibit and Isolate
Others	All other types of events
Doors	
Alarm Abort	Abort alarm if valid PIN entered
Early/Late	Early or late setting/unsetting
Network	Report IP Network Up/Down events
Areas	
🗹 3 - Area 3	~
🗹 4 - Area 4	_
✓ 5 - Area 5	
V 0 - Area 6	
▼ 8 - Vault 1	
9 - Vault 2	
✓ 10 - ATM 1	
✓ 11 - ATM 2	
	OK Cancel

The **Early or late setting/unsetting parameter** is enabled to report any setting or unsetting which differs from the schedule.

### Enable Reporting of Unusual Setting/Unsetting for SMS

For Engineer configuration, select **General>Setup Users**:



			×
User SMS Configura	ation		
Configure SMS setti	ngs for this	user	
	SMS ID :	9999	
	User :	9999: Engineer	~
SMG	Number	0	
5013	number.		
💕 SMS Events :		SMS Control :	
Alarms :	A      A  A   A   A   A   A   A   A   A   A   A   A   A   A	FSET	3
Alarm Restores :	V 🗟		3
Confirmed Alarms :		ASET	ð
Faults :	Image: A start and a start	SET 🖉	3
Fault Restore :	•		3
Setting :	Image: A start a st	SSTA	3
Early / Late :		LOG	3
Inhibits :	Image: A start and a start	ENGA	3
Door Events :		MANA	3
Other :			3
		□ ×	<u>a</u>
X Delete		🕜 ок	Cancel

Enable Early/Late to report any setting and unsetting which is not according to schedule.

er :		
All Okay :		
'All Okay' required :		
'All Okay' verification Time :	20 + 3	
'All Okay' event :	Panic (Silent)	▼ 3
Miscellaneous :		
RF Output Time :	30 🕂 🔥	
Fob Unset Entry :		
Access denied on alarm :		
Prevent Setting :		
Prevent Unsetting :		
Setting Authorization :	٥	v a

13.2.8 RF Output

RF Output Time	Enter the number of seconds that the RF Output will remain on for.
	0 seconds will toggle the output on and off.

The other Miscellaneous options are described in Entry/Exit [ $\rightarrow$  124] for SPC Pro

## 13.2.9 Area Triggers

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- Click on the **Triggers** button in the Area Configuration page to configure triggers for this area.
- ⇒ The Area Trigger Settings page is displayed.

utomatic Setting	Vinsetting by Trigger	·(s) :
Trigger	Edge	Action
1993.		
	Remove Trigger	Add Trigger

- 1. Click on a trigger to edit conditions for that trigger.
- 2. Click on the Add button to add a new trigger for the area.
- ⇒ The Area Action Trigger page is displayed.

Select Tr	igger :
ID	Trigger Description
1	
2	Trigger 2
Edge	Positive

Select a trigger and click on the **Assign** button to assign the trigger to the area. New triggers can be added to the system or existing triggers can be viewed or edited using the following buttons:

Add a new trigger to the list.
--------------------------------

View or edit a trigger on the list.

Configure the trigger for the area using the following parameters:

Trigger	Select a trigger from the drop down list.
Edge	The trigger can activate from either the positive or negative edge of the activation signal.
Action	<ul> <li>This is the action that is performed when the trigger is activated. Options are:</li> <li>Unset</li> <li>Partset A</li> <li>Partset B</li> <li>Fullset</li> <li>Delay autoset This action will delay alarm setting when the autoset timer is running. The trigger will only add time if the Delay Limit has not been exceeded and each trigger activation will delay setting by the time defined in Delay Interval (see section Setting/Unsetting [→ 128].</li> <li>Restore alarms This action will clear all alarms in the configured zone.</li> </ul>

Note: Triggers cannot be configured from a keypad.

See also

Triggers [ $\rightarrow$  197]

### 13.2.10 Quick configure ATM/Vault areas

When you click on the **Quick Configure ATM/vault Areas** button, the following page is displayed:

Configure Vaults :	Configure ATMs :
Number of Vaults : 0	Number of ATMs : 0
Link Vaults : 🔲 Enabled 🛛 👌	Link ATMs : 🕅 Enabled 🔒
View/Edit Defaults : Defaults	View/Edit Defaults : Defaults
	🔀 Create Vaults/ATM areas now
	Close

For both Vault and ATM areas:

- 1. Enter the number of Vaults/ATM areas to be configured.
- 2. Tick the Link Vaults/ATMs check box if you want all the Vault or ATM areas to be linked.
- Click on the **Defaults** button if you want to edit the existing defaults configured for Vault/ATM areas. (See Adding/Editing an area [→ 122] for details of area configuration)
- 4. Click on the **Create Vault/ATM areas now** button to create the specified number of Vault/ATM areas.

## 13.3 Adding an area group

You can use area groups for configuring multiple areas. So the configuration must not be done for every single area.

- ▷ Only if the option (multiple) **Areas** is activated.
- 1. Select the Area Groups tab.
- 2. Click the Add Area Group button.

Select areas	assigned to	this group	),,,	
Description :	Area Group	o 2		
🍹 Areas assign	ed to this	Area Gro	up:	
☐ 1 [Area 1] - Premis ☐ 2 [Area 2] -	es			
_ 3 [Area 3] - ✔ 4 [Area 4] - Vault				
✓ 5 [Area 5] - Bank				
✔ 6 [Area 6] - Area 6 ✔ 7 [Area 7] - Area 7				 
1 Add New A	Area			

- 1. Enter a description for the group.
- 2. Select the areas that are to be assigned to this group.
- 3. Click OK.
- 4. Click Add New Area to configure a new area to add to the group.

i	NOTICE
	To use the area groups for the Comfort Keypad, activate all Areas in the <b>Areas</b> tab under <b>Panel Settings &gt; Expanders &amp; Keypads &gt; Keypads &gt; Type: Comfort Keypad</b> .

# 13.4 Editing a door



- 1. Click the tab List.
- **2.** Click a door from the list.

and the second se					🔀 Door Attributes:
Desc Zon Zone Att Door Posit DPS Norma Door Relea	Zone: cription: ee Type: ributes: Area: ion EOL: al Open: ase EOL:	37 Door 1 Entry/Exit Edit 1 - Reception Dual 4K7/4K7		•	Door Group       Not Grouped         Entry Reader Area       1 - Reception         Exit Reader Area       1 - Reception         Card and PIN       Ignore Forced         PIN only       Unset on Entry Reader         PIN OR Card       Unset on Exit Reader         PIN to Exit       Full set on Entry Reader         PIN to Set/Unset       Full set on Exit Reader         Emergency       Limit Interlocked Door access (*)         Escort       Setting Prefix         Prevent Passback (*)       Sounder
DRS Norma	al Open: Value	Units	Min	Max	(*) - Door must be assigned to a door group.
Access Granted	3	Seconds	1	255	Time the lock will remain open after granting access
Dented	3	Seconds	1	255	Time controller will wait after invalid event
ccess Denied	10	Seconds	1	255	'Door Open too long' alarm if door is open longer than this time
oor Open		Minutes	1	180	'Door Left Open' alarm if door is open longer than this time
Access Denied Door Open Door Left Open	10		1	255	Additional time after anothing access to a conductive "Cut. King" attain the
Access Denied Door Open Door Left Open Extended	10	Seconds	-		Additional time after granting access to a card with Ext. time attribute
Access Denied Door Open Door Left Open Extended Escort	10 10 10	Seconds Seconds	1	30	Duration to grant escorted access after a card with 'Escort'

- 3. Configure the fields as described in the tables below.
- 4. Click OK.

#### **Door inputs**

Each door has 2 inputs with predefined functionality. These two inputs, the door position sensor and the door release switch can be configured.

Name	Description
Zone	The door position sensor input can be used for the intrusion part as well. If the door position sensor input is used also for the intrusion part, the zone number it is assigned to has to be selected. If the door position sensor is used only for the access part, the option "UNASSIGNED" has to be selected.
	If the door position sensor is assigned to an intrusion zone, it can be configured like a normal zone but only with limited functionality (e.g. not all zone types are selectable).
	If an area or the system is set with the card reader, the

Name	Description
	door position sensor input has to be assigned to a zone number and to the area or the system which have to be set.
Description (Web and SPC Pro only)	Description of the zone the door position sensor is assigned to.
Zone Type (Web and SPC Pro only)	Zone type of the zone the door position sensor is assigned to (not all zones types are available).
Zone attributes (Web and SPC Pro only)	The attributes for the zone the door position sensor is assigned to can be modified.
Area (Web and SPC Pro only)	The area the zone and the card reader are assigned to. (If the card reader is used for setting & unsetting, this area will be set / unset).
Door Position (Web) DPS End Of Line (keypads) Door Position EOL (SPC Pro)	The resistor used with the door position sensor. Choose the used resistor value / combination.
DPS Normal Open	Select if the door release switch is to be a normally open or normally closed input.
Door Release (Web) DRS END OF LINE (Keypads) Door Position EOL (SPC Pro)	The resistor used with the door release switch. Choose the used resistor value / combination.
DRS Normal Open	Select if the door release switch is a normally open input or not.
No DRS	Select to ignore DRS.
(Web and SPC Pro only)	If a DC2 is used on the door, this option MUST be selected. If not selected, the door will open.
Reader Location (Entry/Exit) (Web and SPC Pro only)	Select the location of the entry and exit readers.
Reader formats (Web) READER INFO (Keypads)	Displays format of last card used with each configured reader. (not available in SPC Pro)

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Each free zone number can be assigned to the zones but the assignment is not fixed. If the number '9' is assigned to a zone, the zone and an input expander with the address '1' is connected to the X-Bus (which is using the zone numbers 9-16). The assigned zone from the two door controller will be moved to the next free zone number. Configuration will be adapted accordingly.

#### **Door attributes**

If no attribute is activated, a valid card can be used.

Attribute	Description
Void	The card is temporarily blocked.
Door Group	Used when multiple doors are assigned to the same area and/or anti passback, custodian, or interlock functionality is required.
Card and PIN	Card and PIN are required to gain entry.

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Attribute	Description
PIN Only	PIN is required. No card will be accepted.
PIN Code or Card	PIN or card are required to gain entry
PIN to Exit	PIN is required on exit reader. Door with entry and exit reader is required.
PIN to Set/Unset	PIN is required to set and unset the linked area. The card has to be presented before the PIN is entered.
Unset outside (Browser) Unset on Entry Reader (SPCPro)	Panel/area will unset, when card is presented at entry reader.
Unset inside (Browser) Unset on Exit Reader (SPCPro)	Panel/area will unset, when card is presented at exit reader.
Bypass alarm	Access is granted if an area is set and the door is an alarm or an entry zone type.
Fullset outside (Browser) Fullset on Entry Reader (SPCPro)	Panel/area will fullest, when card is presented twice at entry reader.
Fullset inside Full set on Exit Reader (SPCPro)	Panel/area will fullest, when card is presented twice at exit reader.
Force Fullset	If the user has rights, they can force set from entry reader.
Emergency	Door lock opens if a fire alarm is detected within the assigned area.
Emergency any	Fire in any area will unlock the door.
Escort	The escort feature enforces privileged card holders to escort other card holders through specific doors. If this feature is assigned to a door, a card with the "escort right" has to be presented first, to allow other cardholders without this right to open the door. The time period in which cardholders are able to present their cards after a card with escort right was presented, can be configured per door.
Prevent Passback*	Anti-passback should be enforced on the door. All doors must have entry and exit readers and must be assigned to a door group.
	In this mode, cardholders must use their access card to gain entry into and exit from a defined door group. If a valid cardholder has presented his access card to enter a door group and not presented the card to exit it, the cardholder is in breach of the Anti-Passback rules. Next time the cardholder attempts to enter the same door group, a hard Anti-Passback alarm will be raised and the cardholder will not be permitted entry to the door group.
Soft Passback*	Anti-passback violations are only logged. All doors must have entry and exit readers and must be assigned to a door group.
	In this mode, cardholders must use their access card to gain entry to and exit from a defined door group. If a valid cardholder has presented his access card to enter a door group and not presented the card to exit it, the cardholder is in breach of the Anti-Passback rules. Next time the cardholder attempts to enter the same door group, a Soft Anti-Passback alarm will be raised. However, the cardholder will still be permitted entry to the door group.
Custodian*	The custodian feature allows a card holder with custodian right (the custodian) to give other

Attribute	Description
	cardholders (non-custodians) access to the room.
	The custodian must be the first to enter the room. The non-custodians are only allowed to enter if the custodian is in the room. The custodian will not be allowed to exit until all non-custodians have left the room.
Door Sounder	Door controller PCB mounted sounder sounds on door alarms.
Ignore Forced	Door forced open is not processed.
Interlock* (Browser)	Only one door in an area will be allowed open at a
Limit Interlocked Door Access (SPCPro)	time. Requires Door Group.
Setting Prefix	Authorisation with prefix (A,B,* or #) key to set system
* Require door group	

### Door timers

Timer	Min.	Max.	Description
Access granted	1 s	255 s	The time the lock will remain open after granting access.
Access deny	1 s	255 s	The duration after which the controller will be ready to read the next event after a invalid event.
Door open	1 s	255 s	Duration within which the door must be closed to prevent a "door open too long" alarm.
Door left open	1 min	180 min	Duration within which the door must be closed to prevent a "door left open" alarm.
Extended	1 s	255 s	Additional time after granting access to a card with extended time attribute.
Escort	1 s	30 s	Time period after presenting a card with escort attribute within a user without escort right can access the door.

#### Door calendar

Door locked	Select a calendar which should lock the door during the configured time. No card / pin will be accepted during this time.
Door locked	Select a calendar which should unlock the door. The door will be unlocked during the configured time.

### Door triggers

Trigger	Description
Triggers that will Momentarily Unlock door	If the assigned trigger is activated, the door will unlock for a defined period, then lock again.
Trigger that will lock the door	If the assigned trigger is activated, the door will get locked. No card / PIN will be accepted.
Trigger that will unlock the door	If the assigned trigger is activated, the door will

Trigger	Description
	get unlocked. No card / PIN will be needed to open the door.
Trigger that will set the door to normal	If the assigned trigger is activated, the door will get back to normal operation. This is to undo locking / unlocking of the door. A card / will be is needed to open the door.

### 13.4.1 Door Interlock

Door interlock is feature that prevents the remaining doors in an interlock group from opening if any one door in the group is open.

The following are example of how this feature is used:

- In two-doors entry systems used in some banks and other buildings. Usually push buttons or card readers are used to gain entrance, and red and green LEDs show if the door can be opened or not.
- In ATM technical areas connecting ATM doors. Typically all the ATM doors in addition to the door that gives access to the area would be interlocked.

To create a door lock:

- **1.** Create a Door Group. See Editing a door [ $\rightarrow$  139].
- Set the Interlock attribute for the required doors in the group. See Editing a door [→ 139].
- 3. Configure a door output for door interlock operation. This output becomes active for all the doors of the interlock group whenever a door belonging to the group is open, including the open door itself. This output could be connected, for example, to a red LED or light to indicate that the door could not be opened, and if inverted could be connected to a green LED or light.

To configure an output for door interlock.



Expanders & Keypads

- 1. Select an expander from the list.
- 2. Click on the Output tab to configure the output for this expander.
- **3.** Select **Door Output** and select the required door and **Interlocked** as the output type.
| 🧶 Output Edit       |                       |
|---------------------|-----------------------|
| Edit Output 1       |                       |
| Configure Outp      | ut settings           |
| Output Mapping :    |                       |
| 🔽 Output Type (Ma   | pping)                |
| 🔘 System Output     | Door 1                |
| Area Output         | Door Interlocked      |
| O Zone Mapping      |                       |
| Mapping Gate        |                       |
| Ooor Output         |                       |
| Keyswitch           |                       |
|                     |                       |
| Output Configuratio | on :                  |
|                     |                       |
| Description :       |                       |
| Mode :              | Continuous            |
| Retrigger           |                       |
| On Time :           | 0 [100ms]             |
| Off Time :          | 0 [100ms]             |
| Invert :            |                       |
| Log :               |                       |
| Calendar :          | <no calendar=""></no> |
|                     |                       |
|                     | OK Cancel             |
|                     |                       |

# 14 Configuring Communications

## 14.1 Serial ports

The SPC controller provides 2 serial ports (RS232) that offer the following functionality:

- X10: Serial port 1 is a dedicated interface that supports the X10 protocol. This protocol allows for use of the existing power cables of a building to transport control information to X10 devices providing the ability to trigger and monitor these devices via the SPC Controller programming interface.
- Logging of Events: The Serial port 2 interface provides the ability to connect to a serial port on a PC or a printer. With this connection, a terminal program can be configured to receive a log of System Events or Access Events from the SPC controller.
- System Information: Serial port 2 also provides an interface via a terminal program that allows for the execution of a set of commands to interrogate the controller for specific system information. This facility is available only as a tool for debug and information purposes and should only be used by experienced installers.



1	PC with serial port running hyperterminal
2	SPC controller
3	JP9 (2000)
4	RS232

To configure the serial ports:



- Click the tab Settings.
  - ⇒ The following window will be displayed:

The settings displayed will depend on the type of connection that the ports are used for. The settings are described in the following sections:

### 14.2 Modems

The SPC panel provides two on-board modem interface connectors (primary and backup) that allow you to install PSTN or GSM onto the system.



After a factory default, during the process of initial setup of the system with the keypad, the panel detects if it has a primary or backup modem fitted, and if so, it displays the modem type and automatically enables it (or them) with the default configuration. No other modem configuration is allowed at this stage.

To program the modem(s):

**Note:** A modem must be installed and identified. (See section Installing plug-in modules)

Communications



Click Enabled and configure the modems.

Settings				
Modem Configuration				
Moden	<u>n 1 Primary</u>	Moden	2 Secondary	
Enabled :		Enabled :		
Modem Type :	PSTN	Modem Type :	GSM	~
Country :	Ireland	Country :	Ireland 🗸	
Answer Mode :	0-Never answer Phone	Answer Mode :	0-Never answer Phone	• •
Number of Rings :	0	Number of Rings :	o ÷	
Incoming Calls :	Only answer when engineer access is granted	Incoming Calls :	Only answer when a	engineer access is
Prefix :	Phone # prefix	Prefix :	grances	Phone # prefix
Line Monitoring :	Disabled	Line Monitoring :	Disabled	~
Line Monitoring Timer :	0 🕂 0 to 999 Seconds	Line Monitoring Timer :	0 📩 0 to 999 s	5econds
SMS Enable :	Enabled	SMS Enable :	Enabled	
SMS Server Number :	PSTN Only)	SMS Server Number :		(PSTN Only)
SIM PIN :	(GSM Only)	SIM PIN :		(GSM Only)
Test SMS :	🔁 Test	Test SMS :	🖅 Test	
Automated SMS Interval :	Disabled 🐱	Automated SMS Interval :	Disabled	~
Automated SMS # :		Automated SMS # :		
	PRS Settings		CDDS Settings	

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SMS detection and configuration is not available unless modems that are configured and enabled.

### 14.2.1 SMS test

Once the SIM feature is enabled for a modem, a test may be preformed to desired recipient number with a composed message.

- 1. Enter the mobile phone number (including 3-digit country prefix) in the number field and a short text message in the message box.
- 2. Click Send SMS and verify the message is received on the mobile phone.

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The SMS test is provided only for the purpose of ensuring the SMS feature is operating correctly. A short text message using alphabetic characters (A-Z) should be used to test this feature.

The SMS operates using a standard protocol that is used in SMS telephones. Please note that some PSTN operators do not provide the service of SMS over PSTN. For SMS to operate over PSTN the following criteria is required:

- Caller ID needs to be enabled on the telephone line.
- Direct telephone line not through PABX or other comms equipment.
- Please also note that most Service Providers only allow SMS to a telephone registered in the same country (this is due to billing issues).

### 14.2.2 SMS feature

The SPC controller allows remote (SMS) messaging on systems with installed modems. Once a modem is installed, the following configurations are necessary for SMS:

- SMS-enabled modem. See page.
- SMS Authentication. See page.
- Engineer SMS Control. See page.
- User SMS Control. See page.

Depending on configurations, features include these SMS abilities:

- Event notification. See page.
- Remote Commands (users may be assigned select remote commands. See page.

### 14.2.3 SMS system options

Once a modem is installed and the SMS feature enabled, for SMS operations the SPC system must apply the SMS Authentication.

- 1. Select Configuration > System > System Options.
- 2. Select the desired option from the drop-down menu SMS Authentication:
- **PIN Only**: This is a valid user code. See page.
- **Caller ID Only**: This is the phone number (including 3-digit country prefix code) as configured for User SMS Control. Only when this option is selected will the SMS Control be available for configuration by the user.
- PIN and Caller ID

- SMS PIN Code Only: This is a valid PIN code configured for the user which different from the user's login code. See page. Only when this option is selected will the SMS Controls be available for configuration by the user.
- SMS PIN Code & Caller ID

### 14.2.4 SMS commands

Once the SMS setup and configuration is complete, SMS features may be activated. Commands, depending on SMS configuration are sent using a code or caller ID. The type of code depends on what is set for SMS Authentication. For more information on SMS Authentication, see page [ $\cdot$  136]).

The table below provides all available SMS commands. Subsequent action and response are also provided.

SMS Commands are sent as texts to the phone number of the SIM card on the controller.

For commands using code, the format of the text is the code followed by either a space or a full stop. Where \*\*\*\* is the code and "command" is the command: \*\*\*\*\*.command or \*\*\*\*\* command.

For example, the command "HELP" is this text: \*\*\*\* HELP or \*\*\*\*.HELP.

COMMANDS (**** = c	ode)		
Using Code	Using Caller ID	Action	Response
**** HELP ****.HELP	HELP	All available commands displayed	All available commands
**** FSET (FULLSET) ****.FSET	FSET	Fullset Alarm	Time/date of system set. If applicable, responds with open zones/forceset zones
****ASET (PARTSET A) *****.ASET		Allows Partset A of alarm by SMS	
**** BSET (PARTSET B) ****.BSET			
**** USET ****.USET	USET	Unset Alarm	System Unset
**** SSTA (STATUS) ****.SSTA	SSTA	Status displayed	Status of system and applicable areas
**** XA1.ON ****.XA1.ON		Where X10 device is identified as "A1", it is triggered on.	Status of "A1"
**** XA1.OFF ****.XA1.OFF		Where X10 device is identified as "A1", it is triggered off.	Status of "A1"
**** LOG ****.LOG		Up to 10 recent events displayed	Recent events
**** ENG.ON ****.ENG.ON	ENG.ON	Enable Engineer access	Engineer status
**** ENG.OFF ****.ENG.OFF	ENG.OFF	Disable Engineer access	Engineer status
**** MANA.ON ****.MANA.ON		Enable Manufacturer access	Manufacturer status

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**** MAN.OFF ****.MAN.OFF	Disable Manufacturer access	Manufacturer status
**** 05.0N ****.05.0N	Where output is identified as "O5", it is triggered on	Status of "O5"
**** 05.0FF ****.05.0FF	Where output is identified as "O5", it is triggered off	Status of "O5"

For SMS recognition, output identification uses the format ONNN, where O stands for output, and NNN are the numeric placeholders, of which not all are necessary. Example: O5 for Output 5.

For SMS recognition, X-10 device uses the format: XYNN, where X stands for X-10; Y stands for the alphabetic identity and NN are the available numeric placeholders. Example: XA1.

### 14.2.5 PSTN modem



- 1. Click the tab **Settings**.
- 2. Configure the fields as described in the table below.

Modem Settings	
Moden	<u>n 1 Primary</u>
Enabled :	
Modem Type :	PSTN 💌
Country :	Ireland
Answer Mode :	1-Answer after 'x' RINGS
Number of Rings :	3
Incoming Calls :	Only answer when engineer access is granted
Prefix :	Phone # prefix
Line Monitoring :	Disabled
Line Monitoring Timer :	0 📩 0 to 999 Seconds
SMS Enable :	🔲 Enabled
SMS Server Number :	PSTN Only)
SIM PIN :	(GSM Only)
Test SMS :	🔁 Test
Automated SMS Interval :	Disabled
Automated SMS # :	

## Modem settings

Country	Select the country that the SPC is installed in.
SIM PIN	Only for GSM. Enter the PIN for the SIM card installed in the GSM module.
Allow Roaming	Select to enable GSM roaming. <b>Note:</b> Changing this setting resets the modem.
	Note: Supported on GSW moderns V3.08 of higher.
Incoming Calls	The modem can be programmed to answer calls based on the following conditions:
	• Don't answer calls: Modem never answers calls.
	• Answer after 'x' rings: Select the number of rings after which the modem answers the incoming call.
	• Answers after the calling party calls the modem, hangs up after 1 ring burst only and then immediately re-calls the modem. The SPC system knows to automatically answer the call in this condition.
	• Only answer when 'Engineer Access' is granted.
Prefix	Enter the number required to access a line. (e.g. if connected to a PBX)
Line Monitoring	<b>PSTN Modem:</b> Enable this feature to monitor the voltage of the line connected to the modem.
	<b>GSM Modem:</b> Enable this feature to monitor the signal level from the GSM mast connected to the modem.
	The <b>Fullset</b> option only enables this feature while the system is Fullset.
	Note : EN 50131-9 Confirmation configuration

	In order for EN50131-9 Confirmation to operate correctly, line monitoring must be enabled. (refer to System Options $[\rightarrow 66]$ )
Monitor Timer	Select the period (in seconds) for which the line voltage must be seen as being incorrect before the line is deemed by the SPC to be faulty.
Modem Fault Time	Time delay for a system alert (0 - 9999 seconds). Default 60 seconds.
SMS Enable	Tick this checkbox to enable the SMS feature on the system.
	<b>Note:</b> The SMS operates using a standard protocol that is used in SMS telephones. Please note that some PSTN operators do not provide the service of SMS over PSTN. For SMS to operate over PSTN the following criteria is required:
	Caller ID needs to be enabled on the telephone line.
	Direct telephone line – not through PABX or other comms equipment.
	Please also note that most Service Providers only allow SMS to a telephone registered in the same country (this is due to billing issues).
	<b>Note:</b> SMS over PSTN is no longer supported. The functionality remains in the product for backward compatibility.
SMS Server Number	Only for PSTN. This number automatically displays the default number for SMS for the country selected. Enter an appropriate phone number of the SMS service provider that is accessible in your location.
Automated SMS	Select the timing for automated SMS messages.
Automated SMS Number	Enter SMS number to receive automated SMS messages.
Test Call Time	Displays time of last SMS test call.
GSM Chip Version	Displays the GSM WISMO version number.
	If no version number is available, "" is displayed.
GPRS Access Point (APN)	Only for GSM. Access Point Details must be provided by service provider.
GPRS Access Point User Name	Only for GSM. Access Point Details must be provided by service provider.
GPRS Access Point Password	Only for GSM. Access Point Details must be provided by service provider.

Click the **Test SMS** button to send a short text message for the purposes of testing the system.

Note: The SMS test is provided only for the purpose of ensuring the SMS feature is operating correctly. A short text message using alphabetic characters (A-Z) should be used to test this feature.

The SMS test is provided only for the purpose of ensuring the SMS feature is operating correctly. A short text message using alphabetic characters (A-Z) should be used to test this feature.

When using the SMS message feature over a PSTN line, it is necessary to program the phone number of the SMS service provider that services the area in which the SPC is installed. The SPC system automatically dials this number to contact the SMS server whenever the SMS feature is activated. Calling line identity MUST be enabled on the PSTN line for this feature to operate. Each country will have its own SMS service provider with a unique phone number.

This feature is not released in all countries. Please contact your local supplier for more information (support of feature, recommended service provider).

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Check with country specific service providers for availability of service and SMS server number.

Some SMS servers may have additional technical requirements for the correct operation of the service. Check with the local SMS service provider for details on these requirements.

### 14.2.6 GSM modem

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Modem Configuration

- > A GSM modem must be properly installed and functioning correctly.
- 1. Click the tab Settings.
- 2. Configure the fields as described in the table below.

Moden	n 2 Secondary
Enabled :	
Modem Type :	GSM
Country :	Ireland
Answer Mode :	0-Never answer Phone
Number of Rings :	0
Incoming Calls :	Only answer when engineer access is granted
Prefix :	Phone # prefix
Line Monitoring :	Disabled 💌
Line Monitoring Timer :	0 to 999 Seconds
SMS Enable :	Enabled
SMS Server Number :	(PSTN Only)
SIM PIN :	(GSM Only)
Test SMS :	🚝 Test
Automated SMS Interval :	Disabled 💌
Automated SMS # :	
- M	GPRS Settings

### Modem settings

Country	Select the country that the SPC is installed in.
SIM PIN	Only for GSM. Enter the PIN for the SIM card installed in the GSM module.

Allow Roaming	Select to enable GSM roaming.
	Note: Changing this setting resets the modem.
	Note: Supported on GSM modems v3.08 or higher.
Incoming Calls	The modem can be programmed to answer calls based on the following conditions:
	• Don't answer calls: Modem never answers calls.
	<ul> <li>Answer after 'x' rings: Select the number of rings after which the modem answers the incoming call.</li> </ul>
	<ul> <li>Answers after the calling party calls the modem, hangs up after 1 ring burst only and then immediately re-calls the modem. The SPC system knows to automatically answer the call in this condition.</li> </ul>
	<ul> <li>Only answer when 'Engineer Access' is granted.</li> </ul>
Prefix	Enter the number required to access a line. (e.g. if connected to a PBX)
Line Monitoring	<b>PSTN Modem:</b> Enable this feature to monitor the voltage of the line connected to the modem.
	<b>GSM Modem:</b> Enable this feature to monitor the signal level from the GSM mast connected to the modem. The <b>Fullset</b> option only enables this feature while the system is Fullset. <b>Note :</b> EN 50131-9 Confirmation configuration In order for EN50131-9 Confirmation to operate correctly, line monitoring must be enabled. (refer to System Options [ $\rightarrow$ 66])
Monitor Timer	Select the period (in seconds) for which the line voltage must be seen as being incorrect before the line is deemed by the SPC to be faulty.
Modem Fault Time	Time delay for a system alert (0 - 9999 seconds). Default 60 seconds.
SMS Enable	Tick this checkbox to enable the SMS feature on the system.
	<b>Note:</b> The SMS operates using a standard protocol that is used in SMS telephones. Please note that some PSTN operators do not provide the service of SMS over PSTN. For SMS to operate over PSTN the following criteria is required:
	Caller ID needs to be enabled on the telephone line.
	Direct telephone line – not through PABX or other comms equipment.
	Please also note that most Service Providers only allow SMS to a telephone registered in the same country (this is due to billing issues).
	<b>Note:</b> SMS over PSTN is no longer supported. The functionality remains in the product for backward compatibility.
SMS Server Number	Only for PSTN. This number automatically displays the default number for SMS for the country selected. Enter an appropriate phone number of the SMS service provider that is accessible in your location.
Automated SMS	Select the timing for automated SMS messages.
Automated SMS Number	Enter SMS number to receive automated SMS messages.
Test Call Time	Displays time of last SMS test call.
GSM Chip Version	Displays the GSM WISMO version number.
	If no version number is available, "" is displayed.
GPRS Access Point (APN)	Only for GSM. Access Point Details must be provided by service provider.
GPRS Access Point User Name	Only for GSM. Access Point Details must be provided by service provider.
GPRS Access Point Password	Only for GSM. Access Point Details must be provided by service provider.

Click the **Test SMS** button to send a short text message for the purposes of testing the system.

Note: The SMS test is provided only for the purpose of ensuring the SMS feature is operating correctly. A short text message using alphabetic characters (A-Z) should be used to test this feature.

 The SMS test is provided only for the purpose of ensuring the SMS feature is operating correctly. A short text message using alphabetic characters (A-Z) should be used to test this feature.
 **14.3** Alarm Reporting Centres (ARCs) The SPC panel has the facility to communicate information to a remote receiving

> station when a specific alarm event on the panel has occurred. These Alarm Reporting Centres must be configured on the panel to allow this remote communication to operate.

## 14.3.1 Adding / Editing an ARC using SIA or CID

Communications



Alarm Reporting Centres

- ▷ A PSTN or GSM modem is installed and functioning correctly.
- 1. Click the tab List.
  - ⇒ The following window will be displayed:

### Configured Alarm Reporting Centres

Account	ARC	Protocol	Priority	Number 1	Number 2
	Remote Station 1	SIA	Primary		
	Remote Station 2	SIA	Primary	00492749409	00492749408
944 C					

- 2. Click the button Add OR Click an ARC in the list.
  - ⇒ The following window will be displayed.
- 3. Configure the fields as described in the table below.

### 🧑 Alarm Receiving Centre

Add/Edit ARC		
Add/Edit Alarm Rec	eiving Centre details	
Description	Remote Station 1	Identification of Alarm Receiving Centre
Account		Account Number
Protocol	SIA	Protocol used in communication
Priority	Primary 💌	Priority of ARC
Number 1		Phone Number 1
Number 2		Phone Number 2
Dial Attempts	3 💌	Number of dial attempts to connect to receiver
Dial Interval	0 •	Period between retrials
Test Calls	Disabled 💌	Interval between automatic test calls
Test All	Check if all modems should	be tested
	ARC Modern Test Ca	all 1  ARC Modern Test Call 2
	🙀 ARC Log	
	NOTE: ARC must be programm	ed on the panel for this test call to be successful
Filters		OK X Delete Cancel

Description	Enter a description of the remote Alarm Receiving Centre.		
Account	Enter your account number. This information should be available from the receiving station and is used to identify you each time you make a call to the ARC.		
	For a Contact ID account, a maximum of 6 characters is allowed.		
Protocol	Enter the communication protocol that you intend to use (SIA, SIA Extended, Contact ID, Fast Format).		
	<b>Note</b> : SPC supports the extended SIA protocol. Select this protocol to support additional textual descriptions of the SIA events being sent to the Alarm Receiving Station.		
Priority	Select the priority for the ARC in terms of primary or back-up reporting.		
Number 1	Enter the first number to be dialled to contact the ARC. This system will always attempt to contact the ARC on this number before attempting another number.		
Number 2	Enter the second number to be dialled to contact the ARC. The system will only attempt to contact the ARC on this number if the first contact number did not successfully establish a call.		
Dial Attempts	Enter the number of times that the system will attempt to make a call to the receiver. (Default is 8)		
Dial Delay	Number of seconds to delay between failed dial attempts (0 - 999).		
Dial Interval	Enter the number of seconds to delay between failed dial attempts. (0 - 999)		
Test Calls	Enable the test call by choosing a time interval. This will send out an automatic test call from modem 1 to the primary ARC.		
Test All	Check this box if you want to initiate also an automatic test call from modem 2 to		

a ×

#### the backup ARC.

- 1. Click on the **ARC Modem Test Call 1** or **2** button to manually send a test call from modem 1 or modem 2 to the primary ARC.
- 2. Click on the ARC Log button to receive a log file. A log of all automatic and manual test calls is be displayed.
- 3. Click on the OK button to enter those details on the system.
  - A list of the configured ARC accounts will be displayed on the Configured Alarm Reporting Centres list.

### 14.3.2 Editing an ARC filter using SIA or CID

To configure the events on the SPC that will trigger the call to the ARC:



• Click the button Filters in the window Add/Edit ARC.

⇒ The following window will be displayed:

ARC Filters		X
ARC Filters		
Configure Alarm F	Reporting Centre settings	
Event Filter		
Alarms	Alarm Activation	
Alarm Restores	Reported alarms being restored	
Confirmed Alarms	Alarms confirmed by multiple zones	
Faults	Fault and Tamper activations	
Fault Restore	Fault and Tamper restores	
Settina	Setting and Upsetting	
Inhihits	Diphibit and Isolate	
Others		
Doors		
Alarm Abort		
Farly /Late		
Carly/Late		
Network	Report IP Network Up/Down events	
Areas		
☑ 3 - Area 3	^	
✓ 4 - Area 4		
✓ 5 - Area 5		
7 - Area 6		
🗹 8 - Vault 1	(二)	
🗹 9 - Vault 2		
✓ 10 - ATM 1		
✓ 11 - ATM 2	×	
	OK Cancel	

• Configure the following fields and click **OK**:

Check any of the following boxes if you want to initiate a remote call to the ARC to notify it of the particular event.

Alarms	Alarms are activated.
Alarm Restores	System alarms are restored.
Confirmed Alarms	Alarms confirmed by multiple zones
Alarm Abort	Alarm Abort events. Alarms are aborted after a valid user code is entered via the keypad after a confirmed or unconfirmed alarm,
Faults	Faults and tampers are activated.
Fault Restores	Fault or tamper alarms are restored.
Settings	System is Set and Unset.
Early/Late	Unscheduled setting and unsetting of the system.
Inhibits	Inhibit and isolate operations are performed on the system.
Door Events	Door events are activated. Only works with SIA protocol.
Other	All other types of events are detected on the system.

Network	Report IP Network Polling Up/Down events.
Areas	Select specific areas to which above events apply.



By adding a separate Alarm Receiving Centre (ARC) for each area defined on the system and programming each area to report it's own separate ARC receiver, the system can approximate a multi-tenanted system in that a high degree of autonomy is assigned to each area.

## 14.4 EDP Setup

IP

The system has the facility to communicate information to the SPC Com server remotely using Vanderbilt 's own protocol, the EDP (Enhanced Datagram Protocol). By correctly configuring an EDP receiver on the system, it can be programmed to automatically make data calls to the SPC Com server in a remote location whenever events such as alarm activations, tampers, or arming/disarming occur. The engineer can configure the system to make calls to the remote server via the following routes:

- **PSTN** (PSTN modem required)
- **GSM** (GSM modem required)
- Internet (Ethernet interface)

If using the PSTN network, ensure the PSTN modem is properly installed and functioning correctly and that a functioning PSTN line is connected to the A, B terminals on the PSTN modem.

If using the GSM network, ensure the GSM module is properly installed and functioning correctly. An IP connection can be made across the internet to a server with a fixed public IP address.

If an IP connection is required, ensure the Ethernet interface is correctly configured (see page [ $\rightarrow$  219]) and that internet access is enabled at the router.

### 14.4.1 Adding an EDP Receiver



1. Click the tab List.

Max. 8 receivers can be added to the SPC system.

- 2. Click the Add New Receiver button.
  - ⇒ The following window will be displayed.
- **3.** See table below for further information.

#### Edit EDP Receiver

Edit Receiver		
Edit EDP receiver	settings	
Description	Receiver1	Description of receiver.
Receiver ID	123456	Numeric identification used by EDP to uniquely identify receiver.
Network Address	123.255.255.0	Network IP address of receiver.
Phone Number 1		Dial-up phone number of receiver.
Phone Number 2		Dial-up phone number of receiver.
🛠 Advanced		🕜 OK 🛛 🗶 Delete Cancel

Description	Enter a text description of the receiver.		
Receiver ID	Enter a unique number which will be used by the EDP to identify the receiver.		
Network Address	Enter the IP address of the receiver. This is only required if the connection to the EDP receiver is being made over the Ethernet interface. If using one of the on- board modems then leave this field blank.		
Phone Number	Enter the first phone number that the modem(s) will dial to contact the receiver.		
Phone Number 2	Enter a second phone number that the modem(s) will dial in the event that the first number dialled did not result in a call being successfully established.		

#### See also

■ Editing EDP Receiver Settings [→ 160]

## 14.4.2 Editing EDP Receiver Settings





- 1. Click on a receiver from the list of Configured EDP Receivers.
  - $\Rightarrow$  The following window is displayed.

EDP Receiver			
Edit EDP receiver	settings		
Description	þ		Description of receiver.
Receiver ID	1		Unique identification number of EDP receiver used by this panel.
Protocol Version	Version 2	¥	Select version of EDP protocol to use with this receive
VdS 2471 Compatible	e 🔽		Enforces EDP Receiver settings to meet the VdS 2471 standard
Advanced			OK X Delete Cancel

- 2. Configure the fields as described in the table below.
- 3. Click the Advanced button to configure more advanced settings
  - $\Rightarrow$  The following window is displayed.

#### EDP Receiver - Advanced Settings

Advanced	Receiver	Setting

Security :		
Commands Enable	~	Check if incoming commands are allowed from this receiver.
Change User Codes		Changing user codes is allowed from this EDP receiver.
<b>Encryption Enabled</b>		Check if data to and from this receiver is encrypted.
Encryption Key	*****	32 Hexadecimal Digits
Virtual Keypad		Check to allow virtual keypad access from this EDP receiver.
Streaming mode	1: After event 🛛 🗸	Live video streaming mode.
Network :		
Network Enable		Check if events can be reported through Network
Network Protocol	UDP/IP	Select transport layer protocol over Ethernet.
Receiver Address	0.0.0.0	Network IP address of receiver, (Leave blank only dial-up)
Receiver Port	0	Network Port of receiver,
Always Connected		Check to enable IP polling from this receiver
Panel Master		Check if panel should keep a permanent connection to the receiver.
Polling Interval		Seconds between polls
Polling Trigger		Number of missing polls before network fail is registered
Dial-Up :		
Dial-Up Enable		Check if events can be reported through dial-up
Call Type	Circuit Switched	Select the type of call to use when dial-up channel is activated.
Dial-Up Interval 1		Minutes between dial-up test calls when network link is up
Dial-Up Interval 2		Minutes between dial-up test calls when network link is down
Dial-Up on Net Fault		Check if network faults is to generate a dial-up test call
Phone number 1		Dial-up phone number of receiver.
Phone number 2		Backup phone number of receiver.
Events :		
Primary Receiver Requeue Events Verification Event Filter	Filter	Check if primary, clear for backup Check if events that fails to report are to be requeued. Check if Audio/Video verification should be sent to this receiver. Configure which events are reported to this receiver
		OK Cancel

#### 4. Configure the fields as described in the table below.

Description	Edit the name of the EDP receiver. Maximum 16 characters.		
Receiver ID	Edit the EDP receiver ID. Range is 1 to 999997 (999998 and 999999 are reserved for special purposes)		
Protocol Version	Select the EDP protocol version to use with this EDP receiver. Options are Version 1 or Version 2. Version 2 is recommended if supported by the receiver, as it is a more secure protocol.		
VdS 2471 Compatible	<ul> <li>(Vds standard only)</li> <li>If this option is selected then the EDP receiver will enforce the following settings for that receiver:</li> <li>8s polling interval</li> <li>TCP protocol enforced</li> <li>TCP retries will fail before 10s (9s approx)</li> </ul>		

×

1

•	EDP event retries are set to 1 independent of the global "Retry Count" setting in "EDP Settings"
•	FTC will be generated within 20s of network failure.

Security		
Commands Enable	Check this box to allow commands to be accepted from the receiver.	
Change User PINs	Check this box to allow user PINs to be changed from a remote location. This feature is applicable only if commands are enabled from the receiver.	
Encryption Enable	Check this box to enable encryption on data to and from the receiver.	
Encryption Key	Enter a hexadecimal key (max. 32 digits) that will be used to encrypt the data. Note: The same key will need to be used at the receiver.	
Virtual Keypad	Enables access to the panel with a virtual keypad i.e. a PC software module that looks and behaves like an SPC keypad. It is available with the SPC Com client.	
Live Streaming/Streaming Mode	Specifies when live streaming of audio and video is available. Options are Never, Always or Only after an alarm event. Default is 'Only after an alarm event'.	
	<b>Note:</b> This setting has obvious privacy implications and therefore should be enabled only where appropriate and subject to local laws and regulations.	
Network (Applies to the Ethernet connection only)		
Network Enable	Check this box to allow events to be reported through the network.	
Network Protocol	Select the type of network protocol for the receiver. Options are UDP and TCP. TCP is recommended if supported by the receiver.	
Receiver ID Address	Enter the IP address of the receiver.	
Receiver IP Port	Enter the IP port that the EDP receiver is listening on.	
Always Connected	If enabled the panel will keep a permanent connection to the receiver. If disabled, the panel will only connect to the receiver after an alarm event.	
Panel Master	If enabled the panel is master of polling messages. Only applicable to UDP connections.	
Polling Interval	Enter the number of seconds between polls.	
Polling Trigger	Enter the number of missing polls before a network connection fail is registered. Only applicable to UDP connections.	
Generate a Network Fault	If polling fails, a network fault alert is generated.	
Dial-up (Applies to the	GPRS modem connection only)	
Dial-up Enable	Check this box to report events through a dial-up connection.	
Call type	Select type of call to use when dial up is enabled. Select GPRS.	
GPRS protocol	Select the transport layer protocol used over the GPRS connection. Options are UDP or TCP. Only applicable if Call Type is GPRS.	
GPRS address	Enter the IP address of EDP receiver for GPRS connections. Only applicable if Call Type is GPRS.	
GPRS port	Enter the port that the EDP receiver is listening on for GPRS connections Options are UDP or TCP. Only applicable if Call Type is GPRS. Default is 50000.	
GPRS Hangup Timeout	Enter the time in seconds after which the GPRS call will hang up. (0 = stay connected until IP connection is up)	

GPRS Autoconnect	Check this box to automatically trigger a GPRS call to the server if an IP network fault occurs.	
Dial-up on Net Fault	Check this box to report network faults on a dial-up test call.	
Dial-up Interval 1*	Enter the number of minutes between dial-up test calls when network link is up.	
Dial-up Interval 2*	Enter number of minutes between dial-up test calls when network link is down.	
Network Address*	Enter the IP address of the receiver. This is only required if the connection to the EDP receiver is being made over the Ethernet interface. If using one of the on-board modems then leave this field blank.	
Phone Number*	Enter the first phone number that the modem(s) will dial to contact the receiver.	
Phone Number 2*	Enter a second phone number that the modem(s) will dial in the event that the first number dialled did not result in a call being successfully established.	
Events		
Primary Receiver	Check this box to indicate that this is the primary receiver. If unchecked, this is a backup receiver.	
Re-queue Events	Check this box if events that failed to report are to be re-queued for transmission	
Verification	Check this box if Audio/Video verification is to be sent to this receiver.	
Event Filter	Click this button to edit the filter events that will trigger an EDP call. Refer to Editing Events Filter Settings [ $\rightarrow$ 164].	



\* EDP dial-up over PSTN is not supported in this release.

### See also

■ Configuring SMS [ $\rightarrow$  56]

## 14.4.3 Editing Event Filter Settings



- 1. Click the button Advanced.
- 2. Click the button Filter.
  - ⇒ The following window will be displayed.
- 3. Configure the fields as described in the table below.

vent Filter	
Configure EDP Ev	ent Filter settings
Alarme	Alarm Activation
Alarm Destores	
Confirmed Alarma	Zone + System alarm restores
	Receiver Event Filter
Tamper Restores	Zone + System tamper restores
Faults	Fault and Tamper activations
Setting	Setting and Unsetting
Inhibits	Inhibit and Isolate
Others	All other types of events
Doors	Door Events
Alarm Abort	Abort alarm if valid PIN entered
Early/Late	Early or late setting/unsetting
Zone States	Zone Input state changes
Non-standard SIA	Codes un-supported by SIA standard
Network	IP Network Up/Down events
Areas :	
1 - Reception	
✓ 2 - Front Office	
✓ 3 - Area 3	
✓ 5 - Area 5	
✔ 6 - Area 6	
✔ 7 - Area 7	

Check any of the following boxes if you want to initiate a remote call to an EDP Receiver to notify it of the particular event.

Alarms	Alarms are activated.
Alarm Restores	System alarms are restored.
Confirmed Alarms	Alarms confirmed by multiple zones
Alarm Abort	Alarm Abort events. Alarms are aborted after a valid user code is entered via the keypad after a confirmed or unconfirmed alarm,
Faults	Faults and tampers are activated.
Fault Restores	Fault or tamper alarms are restored.
Zone state	Report all zone input state changes.
Settings	System is Set and Unset.
Early/Late	Unscheduled setting and unsetting of the system.
Inhibits	Inhibit and isolate operations are performed on the system.
Door Events	Door events are activated. Only works with SIA protocol.
Other	All other types of events are detected on the system.

Other (Non standard)	Non supported SIA codes used with SPC COM XT including Camera Online/Offline events.
Network	Report IP Network Polling Up/Down events.
Areas	Select specific areas to which above events apply.

## 14.4.4 Editing EDP settings



- 1. Click the tab Settings.
  - $\Rightarrow$  The following window will be displayed.
- 2. Configure the fields as described in the table below.

EDP Settings (P	anel)	
Enable		Check to enable EDP.
EDP Panel ID	1000	Unique identification number used by EDP receiver for this panel.
Panel Port	50000	IP Port for receiving IP packets (Default is 50000)
Packet Size Limit	1440	Max. packet size for transmission (Default 1440) [500-1440]
Event Timeout	10	Number of seconds between retransmissions of unacknowledged events.
Retry Count	10	Max number of event retransmissions (5-199).
Dial Attempts	10	Max number of failed dial attempts before Modem lockout (1-199).
Dial Delay	30	Seconds to wait before redialing after a failed dial attempt (1-199).
Dial Lockout	480	Seconds to suspend dialling when max number of failed dial attempts are reached.
Event Logging Option	is :	
	Comms Status EDP commands	
	A/V Events	
	A/V Streaming Keynad use	

Enable	Tick this checkbox to enable EDP operation on the system.
EDP Panel ID	Enter a numeric identifier that is used by the EDP Receiver to identify the panel uniquely.
Panel Port	Select the IP port for receiving IP packets. Default is 50000.
Packet Size Limit	Enter the maximum number of bytes in an EDP packet for transmission.
Event timeout	Enter the timeout period (in seconds) between retransmissions of unacknowledged events.

Retry Count	Enter the maximum number or event retransmissions allowed by the system.
Dial Attempts	Enter the maximum number of failed dial attempts accepted by the system before the modem is locked out (prevented from making further attempts to dial). The lockout period is defined in the option Dial Lockout.
Dial Delay	Enter the time period (in seconds) that the system will wait before redialling after a dial attempt has failed.
Dial Lockout	Enter the time period (in seconds) that the system will suspend dialling when the maximum number of failed dial attempts is reached. Enter a value of '0' to continually attempt dialling.

### **Event Logging Options**

Comms Status	Log all communication availability.
EDP Commands	Log all commands executed through EDP.
A/V Events	Log when Audio/Video verification events are sent to Receiver.
A/V Streaming	Log when Audio/Video live streaming begins.
Keypad Use	Log when remote keypad is activated.

## 14.5 Remote Maintenance

For further information please refer to the Remote Maintenance Configuration Manual.

## 14.6 FlexC®

The SPC Flexible Secure Communications Protocol (FlexC) enables communications for an Internet Protocol (IP) based single or multiple path Alarm Transmission System (ATS). An ATS is a reliable communications link between a Supervised Premises Transceiver (SPT e.g. Ethernet integrated onto the SPC panel) and a Receiving Centre Transceiver (RCT e.g. SPC Com XT or the SPC Connect server, www.spcconnect.com). A FlexC ATS consists of a primary Alarm Transmission Path (ATP) and up to nine backup Alarm Transmission Paths (ATPs). It enables:

- Two-way transfer of data between the SPT, for example the SPC panel over Ethernet, and the RCT, for example, the SPC Com XT server or the SPC Connect server, www.spcconnect.com.
- Communication monitoring of a complete ATS and individual ATPs.

SPC intrusion panels support FlexC over IP with any of the following interfaces:

- Ethernet
- GSM modem with GPRS enabled
- PSTN modem



#### See also

- Quick Start ATP Configuration for EN50136 ATS [→ 168]
- Configuring Event Profiles [ $\rightarrow$  180]
- Event Exception Definition [ $\rightarrow$  182]
- Configuring Command Profiles [→ 184]
- Configuring an EN50136-1 ATS or Custom ATS [→ 171]

### 14.6.1 Quick Start ATP Configuration for EN50136 ATS

FlexC provides the following out of the box features that enable you to get FlexC up and running quickly:

- Quick start configuration screen for an EN50136 Single Path ATS, Dual Path ATS and Dual Path Dual Server ATS
- Default Event Profile
- Default Command Profile (this does not support audio video verification)
- Default FlexC Command User Name (FlexC) and Command Password (FlexC) for controlling the panel from the RCT (e.g. SPC Com XT)
- Auto Encryption with no password
- 1. To quickly configure a FlexC connection between a panel and an RCT (e.g. SPC Com XT), go to **Communications FlexC FlexC ATS**.

- Under Add EN50136-1 ATS, choose one of the following to display the ATP Configuration screen:
- Add Single Path ATS primary ATP only
- Add Dual Path ATS primary and backup ATPs
- Add Dual Path Dual Server ATS primary and backup ATPs, primary and backup servers

Configuration details	for new FlexC ATP	
Panel Identification		
ATS Name :	ATS 7	The name of the ATS
SPT Account Code :	0	The number that uniquely defines the panel to the RCT (1-999999999, 0 = Auto)
RCT Identification		
RCT ID :	1	The unique ID of the RCT (e.g. ID of SPC Com XT installation) (1-99999999)
RCT URL or IP Address :	0.0.0.0	URL or IP address of RCT (e.g. SPC Com XT)
RCT TCP Port :	52000	The TCP Port of the RCT (e.g. Port that SPC Com X is listening on)
Backup RCT Identifica	tion :	
RCT ID :	1	The unique ID of the RCT (e.g. ID of SPC Com XT installation) (1-99999999)
RCT URL or IP Address :	0.0.0.0	URL or IP address of RCT (e.g. SPC Com XT)
RCT TCP Port :	52000	The TCP Port of the RCT (e.g. Port that SPC Com X is listening on)
ATP Interface		
EN50136 ATS Category	Dual Path ATS: DP3	<ul> <li>Select the ATS Category as defined in the EN50136-1:2012 specification</li> </ul>
Primary Interface	Ethernet	Interface used by Primary ATP for communication
Backup Interface	Ethernet	Interface used by Backup ATP for communication
		OK Cancel

- Complete the fields on the ATP Configuration EN50136 ATS screen shown in the table below. At a minimum, you must complete the field RCT URL or IP Address to save. If you do not enter an SPT Account Code, you can commission the panel using the ATS Registration ID which is automatically generated when you save. The RCT operator must enter this ATS Registration ID, for example, in SPC Com XT.
- 2. Click **Save**. The **ATS Configuration** screen displays showing the **ATS Registration ID** and the configured primary ATP or primary and backup ATPs in the **Event Sequence Table**.
- On the ATS Configuration screen, click Save to accept the default settings, for example, the Default Event Profile, the Default Command Profile (including the FlexC Command User Name and FlexC Command Password), and Auto Encryption with no password. To change the settings, see Configuring an EN50136-1 ATS or Custom ATS [→ 171].

- 4. Click Back. The ATS displays in the Configured ATS table.
- 5. Click the **Refresh Registration ID** button to display the **Registration ID** in the ATS table.

Panel Identification	
ATS Name	Enter the name of the ATS. If you do not enter a value, the ATS name defaults to ATS 1, ATS 2 etc.
SPT Account Code	The number that uniquely identifies the panel to the RCT. Enter 0 if you do not have the SPT Account Code. In this case, you can commission the panel using the <b>ATS</b> <b>Registration ID</b> . For an EN50136 ATS, the <b>ATS Registration ID</b> is automatically generated when you click <b>Save</b> . The RCT can send the <b>SPT Account Code</b> to the panel when it is available.
RCT Identification & Backup RCT Identificatio	n (Dual Path Dual Server Only)
RCT ID	Enter the <b>RCT ID</b> that uniquely identifies the RCT (e.g. SPC Com XT) to the panel. This must match the value entered in the SPC Com XT Server Configuration Manager tool in the <b>Server RCT ID</b> field in the <b>Server Details</b> tab. See the <i>SPC Com XT Installation &amp; Configuration Manual</i> .
RCT URL or IP Address	Enter the <b>RCT URL or IP Address</b> for the RCT server location (e.g. SPC Com XT server).
RCT TCP Port	Enter the TCP port for the RCT (e.g. SPC Com XT). This must be the same value entered for the field <b>Server FlexC Port</b> in the SPC Com XT Server Configuration Manager tool.
ATP Interface	
EN50136 ATS Category	Select the EN50136 ATS Category. For a description of categories, see ATS Category Timings [ $\rightarrow$ 269].
Primary Interface	Select the <b>Primary Interface</b> to apply to the primary communications path from the following: • Ethernet • GPRS: Modem 1 • GPRS: Modem 2 • Dial Up Internet: Modem 1 • Dial Up Internet: Modem 2
Backup Interface	<ul> <li>For a Dual Path ATS, select the Backup Interface to use for the backup communications path from the following:</li> <li>Ethernet</li> <li>GPRS: Modem 1</li> <li>GPRS: Modem 2</li> <li>Dial Up Internet: Modem 1</li> <li>Dial Up Internet: Modem 2</li> </ul>

### 14.6.2 Configuring an EN50136-1 ATS or Custom ATS

An ATS comprises an alarm panel, network paths and an RCT (e.g. SPC Com XT). It combines one or multiple paths between an SPC panel and an RCT. You can add up to 10 ATPs to an ATS.

!	NOTICE
•	For an EN50136-1 ATS, the ATS set up sequence starts with configuring an ATP for an ATS. This provides you with a quick set up feature. See Quick Start ATP Configuration for EN50136 ATS [ $\rightarrow$ 168].

- 1. To configure an ATS, go to **Communications FlexC FlexC ATS**.
- 2. Choose from one of the following options:
- Add Single Path ATS
- Add Dual Path ATS
- Add Dual Path Dual Server ATS
- Add Custom ATS.
- For an EN50136 ATS, you must configure the settings on the ATP Configuration - EN50136 screen first. See Quick Start ATP Configuration for EN50136 ATS [→ 168].
- 2. The **ATS Configuration** screen displays. An EN50136-1 ATS will display a primary or primary and backup ATP in the **Event Sequence Table**.

ATS Name : ATS 7		The name of	of the ATS		
Seq No Nar	ne	Comms Interfac	e ATP Category	Status	Active Polling Ever Timeout(s) Timeou
	)		C		)
Add ATP for FlexC RCT	Default Event Profile	Select	Installation Details	s low and whic	Refresh ATP Status
Add ATP for FlexC RCT	d ATP for Analog ARC	Select transr soloct	Installation Details	s how and whic	Refresh ATP Status
Add ATP for FlexC RCT	Id ATP for Analog ARC Default Event Profile Default Command Profi	Select transr file     Select allowe	Installation Details the Event Profile which define nitted the Command Profile which de d	s how and whic	Refresh ATP Status
Add ATP for FlexC RCT Add ATP for FlexC RCT Add ATP for FlexC RCT ADD ATS Profile : Event Profile : Command Profile : ATS Faults ATS Polling Timeout :	d ATP for Analog ARC Default Event Profile Default Command Prof	Select transr file     Select allowe ponds     Timeo	Installation Details the Event Profile which define nitted the Command Profile which de d ut raised if Poll message is not	s how and which efines the comm	Refresh ATP Status h events are ands that are any ATP. (0 = Auto)
Add ATP for FlexC RCT Add ATP for FlexC RCT ATS Profiles Event Profile : Command Profile : ATS Faults ATS Polling Timeout : ATS Event Timeout :	Default Event Profile Default Command Prof 0 Sec 300 Sec	Select transm file      Select allowe onds Timeo onds The a transm	Installation Details the Event Profile which define nitted the Command Profile which de d ut raised if Poll message is not mount of time after an event h nitted	s how and which efines the comm transmitted on has been raised	Refresh ATP Status h events are ands that are any ATP. (0 = Auto) and not
Add ATP for FlexC RCT Ad ATS Profiles Event Profile : Command Profile : ATS Faults ATS Polling Timeout : ATS Event Timeout : Generate FTC :	Id ATP for Analog ARC Default Event Profile Default Command Prof 0 Sec 300 Sec	Select transr file     Select allowe onds     Timeo onds     The allowe select transr Select	Installation Details the Event Profile which define nitted the Command Profile which de d ut raised if Poll message is not mount of time after an event h nitted s whether the system generat it	s how and which efines the comm transmitted on thas been raised wes an FTC on an	Refresh ATP Status h events are ands that are any ATP. (0 = Auto) and not n ATS event
Add ATP for FlexC RCT Add ATP for FlexC RCT ATS Profiles Event Profile : Command Profile : ATS Faults ATS Polling Timeout : ATS Event Timeout : Generate FTC : Requeue Events :	Id ATP for Analog ARC Default Event Profile Default Command Prof 0 Sect 300 Sect V	Select transr file Select allowe onds Timeo The a transr Select Select	Installation Details the Event Profile which define nitted the Command Profile which de d ut raised if Poll message is not mount of time after an event h nitted s whether the system generat it what happens to events after	s how and which effines the comm transmitted on that been raised these an FTC on air r an ATS Timeou	Refresh ATP Status h events are ands that are any ATP. (0 = Auto) and not h ATS event it
Add ATP for FlexC RCT ATS Profiles Event Profile : Command Profile : ATS Faults ATS Polling Timeout : ATS Event Timeout : Generate FTC : Requeue Events : Re-queue Event Delay :	d ATP for Analog ARC Default Event Profile Default Command Prof 0 Sec 300 Sec V 300 Sec	Select     transm     ile     Select     allowe  onds     Timeo onds     The an     transm Select timeo Select onds     Delay attem	Installation Details the Event Profile which define nitted the Command Profile which de d ut raised if Poll message is not mount of time after an event h nitted s whether the system generat it what happens to events after after an ATS Event Timeout b oted again	s how and whic efines the comm transmitted on has been raised ses an FTC on ar an ATS Timeou efore the re-que	Refresh ATP Status h events are ands that are any ATP. (0 = Auto) and not n ATS event it eued event is

- 1. Enter an **ATS Name** to identify the ATS. If you do not enter a value, the ATS name defaults to ATS 1, ATS 2 etc.
- To add 1 primary and up to 9 backup ATPs to an ATS, click Add ATP to FlexC RCT, see Add ATP to FlexC RCT [→ 172] or click Add ATP to Analog ARC, see Add ATP to Analog ARC [→ 177].

- 3. Select an **Event Profile** from the dropdown menu. To customise how events are transmitted on an ATS, see Configuring Event Profiles [→ 180].
- Select a Command Profile from the dropdown menu. To customise the commands enabled for an RCT to control a panel, see Configuring Command Profiles [→ 184].
- 5. Complete the ATS Faults fields as shown in the table below.
- 6. Click the **Edit Installation Details** button to complete the settings to identify the panel to the RCT operator. See Edit Installation Details [→ 179].
- 7. Click **Save** and **Back** to return to the **ATS Configuration** page. The new ATS displays in the **Configured ATS** table.
- 8. For multiple ATPs, you can use the up and down arrows in the **Event Sequence Table** to reorder the ATP sequence.

ATS Polling Timeout	This field is automatically calculated by adding the values of the <b>Active Polling</b> <b>Timeout</b> column in the Event Sequence Table, that is, for all ATPs in an ATS. You can manually overwrite this field. For example, CAT 2 [Modem] has an <b>Active</b> <b>Polling Timeout</b> of 24 hours 10 minutes ( 87000 seconds). To allow a shorter reaction time, enter a lower value.
ATS Event Timeout	The amount of time after an event has been raised and not successfully transmitted before the ATS gives up. Default: 300 seconds.
Generate FTC	Select whether the system generates a FTC on an ATS event timeout.
Re-queue Events	Select this to re-queue events after an ATS Timeout.
Re-queue Event Delay	Delay after an ATS Event Timeout before the re-queued event is attempted again. Default: 300 seconds.
Re-queue Event Duration	Amount of time that the event will be re- queued before the event is deleted. Default: 86400 seconds.

#### See also

ATS Category Timings  $[\rightarrow 269]$ 

### 14.6.2.1 Add ATP to FlexC RCT

Add ATP to FlexC RCT allows you to configure an ATP between the SPC panel and the RCT (e.g. SPC Com XT). You can configure up to 10 ATPs for each ATS. 1. Click the button Add ATP to FlexC RCT.

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Panel Identification		
ATP Sequence No :	1	Sequence number of ATP in the ATS configura (1 is Primary, 2-10 is Backup)
ATP Unique ID :	0	The Unique ID of the ATP so that it can be recognised by the RCT
ATP Name :	Primary ATP 1	The name of the ATP
SPT Account Code :	0	The number that uniquely defines the panel to the RCT (1-99999999, 0 = Auto)
ARC Identification		
RCT ID :	1	The number that uniquely defines the panel to the RCT (1-999999)
URL or IP Address :	0.0.0.0	URL or IP address of RCT
RCT Port :	52000	The TCP Port of the RCT (the TCP Port the RCT is listening on)
ATP Interface		
Comms Interface :	Ethernet	Interface used by ATP for communication
ATP Category :	Cat 5	<ul> <li>Select the The ATP category</li> </ul>
Advanced		
Advanced Eattings	Advanced ATP Settin	Advanced Settings for expert users who

- 1. Complete the ATP fields described in the table below.
- If required, click Advanced ATP Settings, for example, if you are using auto encryption you can optionally enter a password in the Encryption Password field. See Configure Advanced ATP Settings [→ 174].
- 3. Click Save.



Panel Identification	
ATP Sequence No.	This field displays the sequence number of the ATP in the ATS configuration. Number 1 is primary, numbers 2 - 10 are backup.
ATP Unique ID	When you save an ATP, the system assigns a unique ID to an ATP. This is the unique ID of the ATP so it can be recognised by the RCT.
ATP Name	Enter a name for the ATP.
SPT Account Code	Enter a number to uniquely identify the panel to the RCT.
RCT Identification	
RCT ID	Enter the number that uniquely identifies the RCT (for example, SPC Com XT) to the panel. This

	must match the number entered in the field <b>Server</b> <b>RCT ID</b> in the SPC Com XT Server Configuration Manager tool.
RCT URL or IP Address	Enter the URL or IP address of the RCT (for example, SPC Com XT).
RCT TCP Port	Enter the TCP Port that the RCT (for example, SPC Com XT) listens on. The default is 52000. This must match the value in the field <b>Server</b> <b>FlexC Port</b> in the Server Configuration Manager tool. See the <i>SPC Com XT Installation &amp;</i> <i>Configuration Manual.</i>
ATP Interface	
Communications Interface	From the dropdown list, select the interface this ATP uses for communication. • Ethernet • GPRS: Modem 1 • GPRS: Modem 2 • Dial Up Internet: Modem 1 • Dial Up Internet: Modem 2
ATP Category	Select the category to apply to this ATP. For information on ATP Categories, see ATP Category Timings [ $\rightarrow$ 270].
Advanced	
Advanced ATP Settings	It is not recommended to change advanced settings. Changes must only be made by expert users.

## 14.6.2.1.1 Configure Advanced ATP Settings



1. Click the **Advanced ATP Settings** button.

ravancea configuration actails for	new nexe An		
ATP Connections			
Active ATP Connection :	Permanent: Stay Connected	•	Select the ATP connection type when the ATP is the prima communication path
Non-Active ATP Connection :	Permanent: Stay Connected	•	Select the ATP connection type when the ATP is the back communication path
Test Calls			
Test Call Mode (Non Active ATP) :	Test calls Disabled	•	Mode for sending testcalls when the ATP is acting as the Non-Active ATP
Test Call Mode (Active ATP) :	Test calls Disabled	•	Mode for sending testcalls when the ATP is acting as the Active ATP
Time of First Test Call :	00:00	Ŧ	Time of first test call after reset or ATS initialization
Randomize :			Randomize the time of first test call by 0-30 minutes
Encryption (256-bit AES with CBC)			
Encryption Key Mode :	Auto Encryption		Select how the encryption key gets updated
			Optional Password to provide increased security during ATP commissioning
Encryption Password : Reset Key :			Reset encryption key to default when the config is sent t the panel
ATP Profiles			Coloret the Event Deefle which defines how and which
Event Profile :	Use ATS Setting	•	events are transmitted
Command Profile :	Use ATS Setting	•	Select the Command Profile which defines the commands that are allowed
ATP Faults ATP Monitoring Fault :			Generate a fault if the ATP monitoring fails or an Event fails to transmit
Event Timeout :	30s	•	The amount of time that the ATP will keep trying to transmit the event
<u>Minimum Message Lengths</u>			
Poll Message :	0 Bytes	•	Minimum length of a Poll Message
Event Message :	0 Bytes	•	Minimum length of a Event and Testcall Messages
Other Message :	0 Bytes	•	Minimum length of connection and encryption key update messages

- 1. Configure the fields described in the table below.
- 2. Click Save.

ATP Connections	
Active ATP Connection	<ul> <li>Select the ATP connection type when the ATP is operating as the primary communication path.</li> <li>Permanent: Stay Connected</li> <li>Temporary: Hangup 1second</li> <li>Temporary: Hangup 20 second</li> <li>Temporary: Hangup 80 second</li> <li>Temporary: Hangup 3 minutes</li> <li>Temporary: Hangup 10 minutes</li> <li>Temporary: Hangup 30 minutes</li> </ul>
Non-active ATP Connection	<ul> <li>Select the ATP connection type when the ATP is operating as a backup communication path.</li> <li>Permanent: Stay Connected</li> <li>Temporary: Hangup 1second</li> <li>Temporary: Hangup 20 seconds</li> <li>Temporary: Hangup 80 seconds</li> <li>Temporary: Hangup 3 minutes</li> <li>Temporary: Hangup 10 minutes</li> <li>Temporary: Hangup 30 minutes</li> </ul>

Test Calls	
Test Call Mode (Non Active ATP)	Select the mode for sending test calls when the ATP is the non-active ATP.
	<ul> <li>Test calls Disabled</li> </ul>
	<ul> <li>Test call every 10 minutes</li> </ul>
	<ul> <li>Test call every 1 hour</li> </ul>
	Test call every 4 hours
	Test call every 24 hours
	Test call every 48 hours
	<ul> <li>Test call every 40 hours</li> <li>Test call every 7 days</li> </ul>
	<ul> <li>Test call every 7 days</li> <li>Test call every 30 days</li> </ul>
Test Call Mode (Active ATP)	Select the mode for sending test calls when the ATP is the active ATP
	<ul> <li>Test calls Disabled</li> </ul>
	Test call every 10 minutes
	Test call every 10 minutes
	Test call every 4 hours
	Test call every 24 hours
	Test call every 48 hours
	lest call every / days
	Test call every 30 days
Encryption (256-bit AES with CBC)	
Encryption Key Mode	Select how the encryption gets updated.
	Auto Encryption
	<ul> <li>Auto Encryption with Updates</li> </ul>
	<ul> <li>Fixed Encryption</li> </ul>
	Note: Auto Encryption uses the default key and updates it once. Auto Encryption with Updates changes the encryption key every 50,000 messages or once per week, whichever comes first.
Encryption Password	Optional password used to provide increased security during initial ATP commissioning. The password must be entered at the SPT or RCT independently.
Reset Encryption	Reset the Encryption Key and password to the default values.
ATP Profiles	
Event Profile	Select the Event Profile which defines how and which events are transmitted on this ATS.
	Use ATS Setting
	Default Event Profile
	All events
Command Profile	Select the Command Profile which defines the commands that are allowed on this ATS.
	Use ATS Setting
	Default Command Profile
	Custom Command Profile
ATP Faults	
ATP Monitoring Fault	Select to generate an ATP fault if the ATP monitoring fails or an event fails to transmit on the ATP.

Event Timeout	<ul> <li>The amount of time that the ATP will keep trying to transmit the event until the event fails on the ATP and is passed to the next ATP.</li> <li>30 seconds</li> <li>60 seconds</li> </ul>
	• 90 seconds
	• 2 minutes
	• 3 minutes
	• 5 minutes
	• 10 minutes
Minimum Message Lengths	
Poll Message	Minimum length of a poll message.
	• 0 Bytes
	• 64 Bytes
	• 128 Bytes
	• 256 Bytes
	• 512 Bytes
Event Message	Minimum length of an event and test call message.
	• 0 Bytes
	• 64 Bytes
	• 128 Bytes
	• 256 Bytes
	• 512 Bytes
Other Message	Minimum length of connection and encryption key and update messages.
	• 0 Bytes
	• 64 Bytes
	• 128 Bytes
	• 256 Bytes
	• 512 Bytes

## 14.6.2.2 Add ATP to Analog ARC

If a connection between the SPC panel and RCT (e.g. SPC Com XT) goes down, FlexC has the ability to switch to a backup ATP connection between the SPC panel and an Analog ARC. You can configure up to 10 ATPs for each ATS.

- 1. To configure an ATP between an SPC panel and an Analog ARC, click the button **Add ATP to Analog ARC**.
- 2. Complete the ATP fields described in the table below.
- 3. Click Save.

Panel Identification	
ATP Sequence No.	This field displays the sequence number of the ATP in the ATS configuration. Number 1 is primary, numbers 2 - 10 are backup
ATP Unique ID	This ID uniquely identifies the ATP to the RCT
ATP Name	Enter a name for the ATP
SPT Account Code	Enter a number to uniquely identify the panel to the RCT (1 - 999999)
ARC Connection	

Number 1	Phone number 1	
Number 2	Phone number 2	
Modern Select	Select the modern to be used.	
	Modem 2	
Test Calla		
Test Call Mode (Non-active ATP)	ATP is in non-active mode. Default: 24 hours.	
	Test calls disabled	
	<ul> <li>Lest call every 10 minutes</li> </ul>	
	Test call every 1 hour	
	Test call every 24 hours	
	Test call every 48 hours	
	Test call every 7 days	
	<ul> <li>Test call every 30 days.</li> </ul>	
Test Call Mode (Active ATP)	Select the mode for sending test calls when the ATP is an active ATP. Default: 24 hours.	
	Test calls disabled	
	<ul> <li>Test call every 10 minutes</li> </ul>	
	Test call every 1 hour	
	Test call every 24 hours	
	<ul> <li>Test call every 48 hours</li> </ul>	
	<ul> <li>Test call every 7 days</li> </ul>	
	<ul> <li>Test call every 30 days.</li> </ul>	
Time of first test call	Time of first test call after reset or ATS initialization.	
	<ul> <li>Send Immediately (default)</li> </ul>	
	• or	
	<ul> <li>Select a half hour interval between 00:00 and</li> </ul>	
	23:30	
Event Protocol		
Protocol	Protocol used in communication.	
	• SIA	
	SIA Extended 1	
	SIA Extended 2	
	Contact ID	
Event Profile	Select the Event Profile which defines how and which events are transmitted on this ATS.	
	<ul> <li>Use ATS Setting</li> </ul>	
	Default Event Profile	
	<ul> <li>Default Portal Event Profile</li> </ul>	
	All events	
	Custom Event Profile	
ATP Faults	<u> </u>	
	Select to generate an ATP fault if the ATP	
	monitoring fails or an event fails to transmit on the ATP.	
Event Timeout	The amount of time that the ATP will keep trying to transmit the event until the event fails on the ATP and is passed to the next ATP. Default: 2 minutes.	
	<ul> <li>bu seconds</li> </ul>	

• 90 seconds
• 2 minutes
• 3 minutes
• 5 minutes
• 10 minutes

### 14.6.2.3 Edit Installation Details

The installation details are passed to the RCT to help the operator to identify the panel.

### 1. Click the Edit Installation Button.

nstallation Details		
The <mark>foll</mark> ow	ng details are pass	ed to the RCT to help identify the panel
ATS Installation ID :	0	The ID of the ATS Installation (1-999999999)
Company ID :	0	ID of the Company
Company Name :		Name of the Company
ATS Installation Address :		The address of the ATS Installation
GPS Coordinates :		The GPS Coordinates of the installation
ATS Installer Name :		The name of the installer of the ATS
Installer Phone Number 1 :		The phone number of the installer of the ATS
Installer Phone Number 2 :		The phone number of the installer of the ATS
Notes :		Any additional information for the RCT
		OK Cancel

- 1. Complete the fields in the table below.
- 2. Click Save.

ATS Installation ID	The ID of the ATS Installation (1 - 999999999).
Company ID	For future use.
Company Name	Name of the company.
ATS Installation Address	The address of the ATS installation.
GPS Coordinates	The GPS coordinates of the installation.
ATS Installer Name	The name of the installer of the ATS.
Installer Phone Number 1	The phone number of the installer of the ATS.
Installer Phone Number 2	The phone number of the installer of the ATS.
Notes	Any additional information for the RCT.

### 14.6.3 Configuring an SPC Connect ATS

The **Add SPC Connect** ATS functionality opens a communication between the panel (SPT) and the **SPC Connect** server (RCT), www.spcconnect.com. Using the generated SPC Connect ATS Registration ID, a panel user can register a user account and panel with the SPC Connect website to access their panel remotely.

- 1. To configure an SPC Connect ATS, go to **Communications FlexC FlexC** ATS.
- **2.** In the ATS Configuration screen, click **Add SPC Connect** to open a communication path with the SPC Connect server.
- An SPC Connect ATS is added to the Event Sequence Table with the following attributes:
- SPC Connect ATS Registration ID
- Default ATP over Ethernet. For information on ATP fields, see Add ATP to FlexC RCT [→ 172]
- Default Events Profile for SPC Connect
- Default Commands Profile for SPC Connect
- Default RCT URL is www.spcconnect.com
- The SPT Account Code for the ATP is populated.
- Make a note of the SPC Connect **ATS Registration ID** and provide this to the customer along with the *SPC Connect User Guide*.

FlexCATS 🛠 Event Profiles	💋 Comm	and Profiles				Ľ		
	ID	ATS Name	Registration ID	ATP Count	ATS Polling Timeout	ATS Timeout Event	Generate FTC	
	1	SPC Connect	-	1	1800	1800	No	
	2	ATS 2	-	1	180	300	Yes	
					Refres	h Registration ID		
	Add SI	PC Connect						
	Add an ATS to the SPC Connect Server				Add SPC Connect			
	Add El	I50136-1 ATS						
	Add an EN50136-1:2012 single path ATS to the system				🖔 Add Single Path ATS			
	Add an EN50136-1:2012 dual path ATS to the system					K Add Dual Path ATS		
	Add an EN50136-1:2012 dual path and dual Server ATS to the system					🏷 Add Dual Path Dual Server ATS		
	Add Cu	ustom ATS						

## 14.6.4 Configuring Event Profiles

The event profile defines which events are transmitted on an ATS, the reporting status for an event and event exceptions. Event exceptions allow you to remap default values for events to customised values. For more information, see Event Exception Definition [ $\rightarrow$  182].
!	NOTICE
	To quickly create a new event profile, go to <b>Communications - FlexC - Event</b> <b>Profiles</b> . In the <b>Event Profiles</b> table, select an event profile and click the edit button (blue pencil). Scroll to the bottom of the screen and click <b>Replicate</b> . You can now make the changes you require.

- 1. To configure FlexC event profiles step by step, go to Communications FlexC Event Profiles.
- 2. Click Add. The Event Profiles window displays.

		ile 3		The name of the Event Profile.	
vent Filter					
Filter Group		Report Event	Exception Count	Add Event Exception	
onfirmed alarms		<b>v</b>	0	Select Event to Add Exception	
ntruder Alarms		~	0	Select Event to Add Exception	
ntruder alarm Resto	res	<b>V</b>	0	Select Event to Add Exception	
anic / Holdup / Dure	55	1	0	Select Event to Add Exception	
re Alarms and Rest	ores	2	0	Select Event to Add Exception	
edical Alarms and F	lestores	~	0	Select Event to Add Exception	
ampers		~	0	Select Event to Add Exception	
amper Restores		1	0	Select Event to Add Exception	
etting			0	Select Event to Add Exception	
aults		Ē	0	Select Event to Add Exception	
ault Restores			0	Select Event to Add Exception	
etwork		Г	0	Select Event to Add Exception	
est Calls		<b>v</b>	0	Select Event to Add Exception	
ngineer Accessing	System	<b>V</b>	0	Select Event to Add Exception	
ystem Information			0	Select Event to Add Exception	
hibits and Isolates		Г	0	Select Event to Add Exception	
one Walk Test		Г	0	Select Event to Add Exception	
one State Change		Г	0	Select Event to Add Exception	
amera			0	Select Event to Add Exception	
oor Warnings		E	0	Select Event to Add Exception	
oor Information			0	Select Event to Add Exception	
ser Information		Г	0	Select Event to Add Exception	

- 1. Enter a Name to identify the event profile.
- 2. Select the event filter groups to report for this profile by ticking the **Report Event** checkboxes.
- **3.** To prevent reporting of certain events or addresses within an event, select the event from the corresponding **Add Event Exception** dropdown list.
- Click Add to view the Event Exception Definition screen. See Event Exception Definition [→ 182].
- 5. To apply an event profile to an area, select the area under Area Filter.
- 6. Click Save and Back. The new profile displays in the Event Profiles table.

i

You can view a list of all event exceptions for an event profile under **Event Exceptions** on the **Event Profiles** screen.

i	NOTICE
	You cannot delete the <b>Default Event Profile, the Default Portal Event Profile</b> or an event profile that is assigned to an ATS. If you try to delete an event profile that is in use, you will get an error.

## 14.6.4.1 Event Exception Definition

Event exceptions allow you to change the following settings for a range of addresses within an event:

- Report Event
- SIA Code
- CID Code
- Event Address (e.g. Zone IDs, Area IDs, User IDs)

For example, in the Filter Group **Intruder Alarms** you could define an event exception for a range of Zone IDs in the Burglary Alarm (BA) event as follows:

- Do not report BA events for Zone ID 1 9
- Remap the SIA Code from BA to YZ
- Remap the CID from 130 / 1 to 230 / 1
- Remap the Zone ID 1 9 to Zone ID 101 109

<u>addition con</u>					
Name :	Burglary Alarm			The name of the Event Exception	
Event ID :	1000			Event ID of the event on the syste	m
Event Description :	Burglary Alarm [Ala	rm Zone]		Description of the event	
Event Filter					
Report Event :				Check if the event is normally repo	rte
Filter Exception Enable :				Check to enable the filter exception	1
if ( 1	<= Zone ID	)<=	9	)	
then	Don't Report Eve	ent	•		
Event Format					
SIA Event Code	: BA			SIA event code that is transmitted represent the event	to
Contact ID Event Code/Qualifier	: 130	/ [1		Contact ID Event Code / Qualifier transmitted to represent the event	
Remap Exception Enable	: 🔽			Check to enable the remap excepti	on
if ( 1	<= Zone ID	<=	9	)	
then Remap SIA	Event Code to	YZ			
and Remap Contact ID Event Co	de/Qualifier to	230	1	1	
100 C 100	ent Address to	101	-	109	

- 1. To configure an **Event Exception Definition**, complete the fields described in the table below.
- 2. Click Save.
- 3. Click Back to return to the Event Profiles screen.
  - The name of each exception displays in the Event Exceptions table at the bottom of the screen. The table shows the settings for the fields Report Event, Filter Exception, Event Code (SIA/CID) and Remap Exception for the event.

3. Event Exceptions List	August Down	Augular last applicant	for against the second se	
Event Exception Name	Report Event	Filter Exception	Event Code (SIA / CID)	Remap Exception
ent ID 1000: Burglary Alarm [Alarm Zone]				
Burglary Alarm	Yes	Don't Report Event [1-9]	BA/130	[1-9] - YZ/230[101-109]

- 1. Click the Edit icon to make changes or the Delete icon to remove an Event Exception.
- **2.** To apply the event profile to an area, select the area checkbox.
- 3. Click Save to save the event profile.

Identification	
Name	Enter the name of the Event Exception.
Event ID	Event ID of the event on the system. This is display only.
Event Description	Description of the event. This is display only.
Event Filter	
Report Event	Check to report the event. This overrides the reporting value set for the event Filter Group. For example, if the Filter Group <b>Intruder Alarms</b> is set to report, you can exclude the BA event or by disabling this setting.
Filter Exception Enable	Check to exclude a range of addresses, for example Zone IDs, from the <b>Report Event</b> field setting.
if (0 ≤ <i>Zone ID</i> ≤ 9999) then Report Event/Don't Report Event	Enter a range of addresses to exclude from the <b>Report Event</b> setting. For example, if you choose to report the event type BA, you may choose not to report <i>Zone ID</i> $1 - 9$ for that event.
	Alternatively, if you choose not to report the event type BA, you may choose to report <i>Zone ID 1-9</i> for that event.
Event Format	
SIA Event Code	Default SIA event code that is transmitted to represent the event. This field is display only.
Contact ID Event Code / Qualifier	Default Contact ID Event Code / Qualifier transmitted to represent the event. This field is display only.
Remap Exception Enable	Check to remap the default SIA, CID code / Qualifier and Event Address to customised values, for example, to remap <i>Zone ID 1 - 9</i> to <i>Zone ID 101 - 109</i> . When enabled, the fields below display.
if (0 ≤ <i>Zone ID</i> ≤ 9999)	Enter the range of addresses to remap for an event, for example, if you want to remap <i>Zone ID 1 - 9</i> to <i>Zone ID 101 - 109</i> , enter <i>1</i> and <i>9</i> . The quantity of addresses in the range must be equal to the quantity of addresses defined in the field <b>Remap Event Address</b> below.
then Remap SIA Event Code to BA	Remap the default SIA code to a customised SIA code.
and Remap Contact ID Event Code / Qualifier to	Remap the default CID Event Code / Qualifier to a customised CID Event Code / Qualifier.
and Remap Event Address to	Enter the new range of addresses, for example, if you are remapping <i>Zone ID</i> 1 - 9 to <i>Zone ID</i> 101 - 109, enter 101 and 109.

### 4. Click **Back** to view the profile in the **Event Profiles** table.

### 14.6.5 Configuring Command Profiles

The command profile defines the commands that are allowed on an ATS. This profile determines how a CMS can control a panel. The default command profile does not support video verification.

!	NOTICE
	To quickly create a new command profile, go to <b>Communications - FlexC -</b> <b>Command Profiles</b> . In the <b>Command Profiles</b> table, select a command profile and click the edit button (blue pencil), Scroll to the bottom of the screen and click <b>Replicate</b> . You can now make the changes you require.

• To add a command profile step by step, go to **Communications - FlexC - Command Profiles**.

IS CONTIG	Command Profi	es		
	ID	Command Profile Name	Commands Enabled	Commands Logged
	1	Default Command Profile	53	27
	2	Default Portal Command Profile	53	27
	3	Command Profile 3	41	44
	4	Command Profile 4	66	21

• Click Add.

ommand Profile Co	nfiguration			
Configuration details f	or new FlexC Command Pr	ofile		
Name: Comman	d Profile 3	The name of th	e Command Profile.	
Command Profile Auth	entication			
Authentication Mode :	Command or Panel User	<ul> <li>Mode used to a user using the</li> </ul>	authenticate the rights Command Profile	of th
Command User Name :	FlexC	Name of the Co	ommand Profile user	
Command Password : *****		Password of th	e Command Profile use	r
Live Streaming				
Live Streaming Mode	Disabled	<ul> <li>Select Live Stre</li> </ul>	aming privacy options	
Command Filter	Commande	Command Enable	Log Command	
Dead Panel Info	Commanus	Command Enable	Log Command	- 6
Read Panel Status		I.	E	
Read Panel Alerts		T I	E	
Perform actions on Alerts			V	
Set the System Time and Date			V	=
Read the System Log			<b>Г</b>	-11
Read the Access Log		<b>v</b>		
Read the Log for a Zone		Г	Г	
Read the Area Status		1		
Change the mode (Set/Unset)	of an Area	<b>v</b>		1
Read Zone Status				
Control a Zone				
Read Mapping Gate Status		V		
Control Mapping Gates		<b>v</b>		
Read a User Configuration				
Read a User Profile Configurat	ion			
Change a Users PIN			V	
Read the Status for a Door				
Control a Door				
Read the Status of a Verification	nn 7one		Г	
× Delete	Replicate	🔇 ок	Cancel	

1. Enter a Name to identify the command profile.

**2.** Select an **Authentication Mode** (Command User or Panel User, Command User Only, or Any Panel User) from the dropdown menu.

!	NOTICE
	The default <b>Command User Name</b> provides an out of the box user that quickly and easily enables control of the panel from SPC Com XT. It enables a broad range of commands. For example, the default command user can set all areas or control all zones. For tighter control, for example to only allow setting of certain areas, you can set up a customised command profile with a defined set of rights. You cannot delete the <b>Default Command Profile</b> , the <b>Default Portal Command</b> <b>Profile</b> or a command profile that is assigned to an ATS.

- **3.** Enter the name of the command profile user in the **Command User Name** field. This must match the **Authentication User Name** field in SPC Com XT.
- Enter the password of the command profile user in the Command Password field. This must match the authentication User PIN or Password field in SPC Com XT.
- 5. Select the Live Streaming Mode (Disabled, Only after alarm event, Always available, System is fullset) to determine the streaming privacy options. Always Available generates the highest volume of data.
- Under Command Filter, select the commands to enable. For a full list of commands, see FlexC Commands [→ 268].
- 7. Select the commands to log.
- 8. Click Save.
- 9. Click Back to view the command profile in the Command Profiles table.
- **10.** To change a command profile, click the **Edit** button (pencil icon) next to a command profile.

## 15 Communications Settings

## 15.1 Ethernet

i



- ⇒ The following window will be displayed.
- **2.** Configure the fields as described in the table below.

Ethernet Settings			
IP Address	192.168. 1 .100	(x.x.x.x)	
IP Network	255.255.255.0	(x.x.x.x)	
Gateway IP Address	0.0.0.0	(x.x.x.x)	
DNS Server	0.0.0.0	(x.x.x.x)	
DHCP Enabled		Select this to use Dynamic Address	

IP address	Enter the IP address of the panel.
IP Network	Enter the subnet mask that defines the type of network address structure implemented on the Local Area Network (LAN).
Gateway IP Address	Enter the IP address of the IP gateway if one exists. This is the address that IP packets will be routed through when accessing external IP addresses on the internet.
Enable DHCP	Click this Button to enable dynamic address assignment on the panel.
DNS Server	Enter the IP address of the DNS server.

## 15.2 Configuring the networking services of the panel





Network Settings

- 1. Select the tab Services.
  - ⇒ The following window will be displayed.
- 2. Configure the fields as described in the table below.

### **Network Services**

HTTP Enabled		Check to enable web server
HTTP Port	443	Port web server is listening on
TLS Enabled		Check to enable encrypted web server
Teinet Enabled		Check to enable telnet server
Telnet Port	23	Port telnet server is listening on
SNMP Enabled		Check to enable Simple Network Management Protocol
SNMP Community	public	Community ID for SNMP protocol
ENMP Enabled		Check to enable Enhanced Network Management Protocol
ENMP Port	1287	Port ENMP is listening on
ENMP Change Password	[	Password for ENMP config changes
ENMP Update Enabled		Check to enable network config changes through ENMP

HTTP Enabled	Tick this box to enable the embedded web server on the panel.
HTTP Port	Enter the Port number that the web server is 'listening' on. By default this is set to 443.
TLS Enabled	Tick this box to enable encryption operation on embedded web server. By default this is enabled. With TLS enabled, web pages can only be accessed by using 'https://' prefix before typing the IP address.
Telnet Enabled	Tick this box to enable the Telnet server. (Default: Enabled) <b>Note</b> : Using Telnet without a comprehensive knowledge can damage the controller configuration; this should only be used if the user has sufficient knowledge or is being instructed by someone with such knowledge.
Telnet Port	Enter the number of the Telnet port.
SNMP Enabled	Tick this box to enable Simple Network Management Protocol (SNMP). (Default: Disabled)
SNMP Community	Enter the Community ID for the SNMP protocol. (Default : Public)
ENMP Enabled	Tick this box to enable Enhanced Network Management Protocol (ENMP). (Default : Disabled)
ENMP Port	Enter the ENMP port number (default: <b>1287</b> ).
ENMP Change	Enter the password for the ENMP protocol

15

Password	
ENMP Update Enabled	Check this box to enable network changes to be made with ENMP protocol.

## 16 Configuring advanced settings

## 16.1 Cause & Effect

Cause & Effect refers to a set of interrelated features and functionality that have in common the evaluation of a logical (or virtual) output as a function of inputs or conditions, which may in some cases result in an effect.

The SPC Cause & Effect functionality encompasses scheduling with calendars, triggers, user outputs, physical outputs, zones, areas, keypads, X10 and user access. Specifically calendars and triggers carry most of the Cause & Effect functionality.

Function	Description
Calendars	Scheduling. This area controls user access to the panel and keypad operation and enables zones and physical outputs. Instrumental in auto-setting of areas and time-control of triggers.
Triggers	Intermediate outputs used to group logical and time conditions. Can in turn be used by X10 and user-defined outputs.
Mapping Gates	Virtual outputs defined by the user for logical control. Can be mapped to physical outputs to control actual devices.
X10 outputs	Virtual outputs used to control X10 devices. An X10 transmitter must be connected to the first serial port of the SPC panel.
Physical outputs	Ability to control external devices.
Keypad shortcuts	Ability to control user-defined outputs and X10 outputs.
SPC Pro	PC application used to configure, monitor and control a SPC panel, both remotely or locally. Ability to change X10 states and user-defined outputs.



## 16.1.1 Adding a Cause & Effect



Cause & Effect

- 1. Click the tab Cause/Effect List.
  - ⇒ The following window will be displayed:

ID	Туре	Item	Description	No. of Triggers	
ġ.	X-10 Unit	Unit A1	Hall light	4	
ĝ₽	X-10 Unit	Unit A2	Landing light	4	
2	User Output	Output 1	User Output 1	2	

- 2. Click the button Add New Cause/Effect.
  - ⇒ The following window will be displayed.
- **3.** Configure the fields as shown in the table below.

	×
Cause & Effect Configuration	n Wizard  🧭
Create and configure Cause & Effe	ect objects
Step 1 of 1 - Select device type to tri	igger
Select Item you want to Trigger :	X-10 Device
Select the type of item that you wish to begin configuring this device and the cor	trigger. Can be either an X10 device or Mapping Gate. Click the 'Next' button to aditions that will trigger it.
Back Next 🔷	Close

4. Select the device type.

	Cause & Effect Configuration Wizard				
Step 1	Select the device type X10 or Output Control.				
	X10 Device Output Control				
Step 2	Select a X10 device.	Select a user output from the list.			
Step 3	Enter a description for the X10 device. Assign a keypad key number (optional).	Enter a description for the user output. Assign a keypad key number (optional).			
Step 4	Assign/Create a trigger [→ 192].	Map user output to expander output.			
Step 5		Assign/Create triggers [→ 192].			

## 16.1.2 Assigning / Creating a trigger



You are in Cause & Effect Configuration Wizard Step 4 (X10) or Step 5 (Output Control) Assign/Create Triggers.

Cause & Effect Configurati	ion Wizard	- The second sec
Create and configure Cause & I	Effect objects	
Step 4 of 4 - Assign/Create Trigge	rs	
	Trigger ON	
Add ON Trigger	Trigger	Edge
	1 - Trigger 1	Positive
Remove Trigger	2 - Trigger 2	Positive
	Trigger OFF	
	Trigger	Edge
Remove Trigger		
Add/Remove triggers to turn ON or tu met will trigger the device. Click on a t	rn OFF your selected device Each trigger h rigger to see the conditions that make up th	as a number of conditions that when hat trigger.
Sack Sinish		Close

- 1. Click the button Add ON Trigger or the button Add OFF Trigger.
  - $\Rightarrow$  The following window will be displayed:

ID	Trigger Description
1	Test Ingger
Edge	Positive

-OR-

Mark a trigger from the list and click the button to edit the selected trigger.

3. For further programming refer to page [ $\rightarrow$  197].

### 16.2 Calendars

Calendars are used for scheduling time-based control for multiple panel operations as follows:

- Automatic setting and/or unsetting of areas
- Automatic setting and/or unsetting of other panel operations including triggers, enabling of users, zones, physical outputs, etc.

At any particular time, any schedule within the calendar can be 'active' if its time conditions are satisfied.

Each week of the year is assigned an ordinal number. Depending on the fall of days within a month, there may be 52 or 53 weeks in one year. The SPC calendar implementation conforms to the ISO8601international standard.

### **Configuring calendars**



### A list of configured calendars is displayed:

-			
Calenda	<u>r Listing</u>		
ID	Description	Week Type Assigned	
1		111111111111111111111111111111111111111	1
2		111111111111111111111111111111111111111	1

### Performable actions

Add New Calendar	Create a new calendar.
Configure Generic Public Holiday	Configure setting schedules for a public holiday that is generic to all calendars.
View/Configure Exception Days	Configure setting schedules for exceptional circumstances outside of the normal weekly schedules

### 16.2.1 Automatic setting/unsetting of areas

A calendar can be configured for area auto-sets or auto-unsets.

For any day of the week, a configuration can have a maximum of 4 set times and 4 unset times. Configured times use the 24 hour clock (hh:mm). If the hour is 24, then minutes must be 00, such as midnight is 24:00. It is possible to define a set time without an unset and vice-versa. Configured times trigger the area to either set or unset (provided all conditions are satisfied). Times entered are not considered as a duration of time, rather they are a point in time that said action (set/unset) will occur. If the controller is powered up or reset, the set/unset status is kept and subsequent set or unset times occur according to configuration.

### 16.2.2 Automatic setting/unsetting of other panel operations

Panel operations including triggers, enabling of users, zones, physical outputs can be automatically set or unset using On/Off, True/False or Active/Inactive state configurations.

On/Off, True/False or Active/Inactive states can be assigned to an output that effectively turns on or off and can be configured for any day of the week. State configurations have a maximum of 4 set times and 4 unset times. Configured times use the 24 hour clock (hh:mm). If the hour is 24, then minutes must be 00, such as midnight is 24:00. Each configuration consists of a pairing of settings for On/Off, True/False, Active/Inactive states. Any one setting without a respective corresponding setting is disregarded.

### 16.2.3 Adding / Editing a calendar



- 1. Click the button Add New Calendar.
  - ⇒ The following window will be displayed:

Assign Week Ty	auter pes to week numbers			
Numboro I				
345678	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	27 28 29 30 31 32 33 34 35 36 3	37 38 39 40 41 42 43 44 4	5 46 47 48 49 50 51
dar:		<i>2</i>		
Description	: Normal Schedule	Se	lect Year : 2012	~
	S S M T W T F S S M T W T F S S M T	TWTFSSMTWTF	S S M T W T F S	SMTWT
January	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 2	7 28 29 30 31	
February	12345678910111213	14 15 16 17 18 19 20 21 22 23 2	4 25 26 27 28 29	
March	123456789101112	13 14 15 16 17 18 19 20 21 22 2	3 24 25 26 27 28 29 30 3	1
April	12345678910111213141516	17 18 19 20 21 22 23 24 25 26 2	7 28 29 30	
May	1234567891011121314	15 16 17 18 19 20 21 22 23 24 2	5 26 27 28 29 30 31	
June	1234567891011	12 13 14 15 16 17 18 19 20 21 2	2 23 24 25 26 27 28 29 3	2
July	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 2	7 28 29 30 31	
August		14 15 16 17 18 19 20 21 22 23 2	4 25 26 27 28 29 30 31	
September			1 22 23 24 25 26 27 28 2	9 30
November		16 17 18 19 20 21 22 23 24 25 2 13 14 15 16 17 18 19 20 21 22 23	3 24 25 26 27 28 29 30	
December		11 12 13 14 15 16 17 18 19 20 2	1 22 23 24 25 26 27 28 2	9 30 31
Tunco I			Dauc	
Types .		Assigned Exception	Days.	
💿 📃 Week Typ	e 1 - [Week Type 1]	Company Holiday	26/01/2012	26/01/2012
🔘 📕 Week Type	2 - [Week Type 1]			
🕖 📙 Week Type	3 - [Week Type 1]			
🗶 Clear All We	eeks 🛛 📝 Assign to All Weeks	<u> </u>		
	Niew/Define Week Types	X Unassign Selected I	Day 🔗 📯 Add/	Edit Exception Days
				-

- 2. Provide a **Description** of the calendar (max. 16 characters)
- 3. Select a Year.

### Week Types

Calendars are configured by assigning an optional Week Type for each calendar week. Up to three Week Types may be defined for each calendar. Not all weeks must have a Week Type (i.e. a Week Type may be 'None'). There is a system maximum number of 64 calendar configurations.

### To configure a week type

- 1. Click the button View/Define Week Types.
  - ⇒ Up to three week types may be configured.
- 2. Click on a week day to open the Week Type configuration dialog.
- Enter the desired times for setting / unsetting or for triggers. Use time guidelines for Automatic Setting/Unsetting of Areas (see page [→ 195]), or for Automatic Setting/Unsetting of other Panel Operations (see page [→ 195]).
- 4. Click Save.

### 1. To assign a week type to a calendar

- 2. Click on the required Week Number at the top of the calendar or click on the required week(s) on the calendar.
- **3.** Click on the desired week type in the **Week Types** section for the scheduled week. For example, a Week Type that is configured for Christmas scheduling would normally be assigned to Week 51/52.

**4.** If you wish to assign the Week Type to the whole calendar, click on the **Assign to all Weeks** button.

Click on the **Show items calendars is assigned to** button to display the panel items that are using this calendar.

To delete the displayed calendar, click on the **Delete** button.

Global calendars created using SPC Manager cannot be deleted.

### See also

- Automatic setting/unsetting of areas [ $\rightarrow$  195]
- Automatic setting/unsetting of other panel operations [→ 195]

## 16.3 Triggers

A trigger is a system state (e.g. zone closing / time / system event (alarm) etc.) that can be used as inputs to the Cause & Effects. The triggers can be logically assigned together using the logical operators and / or to create user outputs. The system supports up to a maximum of 1024 triggers across all its Cause & Effects system.



### 1. Click the button Add New Trigger.

⇒ The following window will be displayed.

ID	Description	Number of Trigger Conditions
1	Trigger 1	2 Trigger Conditions
2	Trigger 2	1 Trigger Conditions
3	Trigger 3	1 Trigger Conditions
4	Trigger 4	1 Trigger Conditions
5	Trigger 5	1 Trigger Conditions

Triggers Listing

2. Click on the Add New Trigger button to add new triggers and configure trigger conditions.

Trigger Configuration		
Configured Conditions for this Tr	igger	
Trigger Num :	3	
Trigger Description :	Trigger 3	
Active Time :	0 Number of seconds trigger conditions must be	true.
Time Limitation :	✓ 00:00 ÷ to ✓ 24:00 ÷	
Calendar :	<no calendar=""></no>	
N.B. This trigger will only become active 'Time Limitation' or 'Calendar' to this trig AND within a valid time On/Off duration.	when ALL of the conditions below are met at the sam ger then this will further limit the trigger to be active	e point in time. If you assign a e only when ALL condition are met
Input/Output Conditions		Irigger Conditions
Any WPA [Function=Red]		Zone
Zone I [Front door] - OPEN		System Output
		Area Output
		Wireless FOB
		Keypad PIN
		Door
		Mapping Gate
		Keyswitch
		/ Indicator
		WPA Function
		Wireless FOB Panic
	Remove Selected Condit	ion 👌 Time
		ancel 🔗 OK

### 3. Configure the fields as described in the table below.

Trigger Num	System generated number for new trigger. Trigger will only become active if one of the 2 optional steps (calendar/time limitation) is configured
Trigger Description	Enter a text description for the trigger
Calendar	Select a calendar, if required. If selected, the trigger will only be in effect during this calendar period. See page [ $\rightarrow$ 194].
Active Time/Timer	Enter the number of seconds that the trigger conditions must be true before the trigger will activate
Time Limitation	Select a time period between 00:00 and 24:00 during which the trigger will only be in effect. The Start time is inclusive, the end time is exclusive. <b>Note:</b> This parameter delays a trigger transition from ON to OFF only; from
	OFF to ON is immediate.
Trigger conditions	The trigger is ON if the following conditions are satisfied (i.e. a logical AND operation is performed):

<b>Zone</b> – the trigger is ON if the configured zone is in one of the following states - open, closed, short or disconnected.
<b>Door</b> – the trigger is ON if the any of the following door options are configured; Entry granted, Entry denied, Exit granted, Exit denied, Door open too long, Door left open, Door forced open, Door normal, Door Locked, Door unlocked
<b>System</b> - the trigger is on if the system output is in the configured state, which can be on or off. Possible system outputs are "External Bell", "Alarm", etc.
<b>Area</b> - the trigger is ON if the area output is in an ON or OFF state. Possible area outputs are "External Bell", "Alarm", etc.
<b>Wireless FOB</b> – this condition can be configured for a particular user or for any user. With this configuration, if the configured user (or any user) presses the '*' key on the FOB, it will cause an instantaneous pulse OFF/ON/OFF. This only applies for FOBs that have been registered with the system.
<b>Wireless FOB Panic</b> - – this condition can be configured for a particular user or for any user. With this configuration, if the configured user (or any user) presses the '*' key on the FOB Panic, it will cause an instantaneous pulse OFF/ON/OFF. This only applies for FOB Panics that have been registered with the system.
<b>WPA</b> – the trigger is activated if a button or combination of buttons is pressed. It is possible to assign a trigger condition to all WPAs or just to one specific WPA. When a trigger with a WPA trigger condition is defined, it can be assigned to a mapping gate for many purposes including arming a system, turning on lights or opening a door.
<b>Keypad valid PIN</b> – this condition can be configured for a particular user or for any user. With this configuration, if the configured user (or any user) enters a valid PIN, or presents a configured PACE, it will cause an instantaneous pulse OFF/ON/OFF.
<b>Keyswitch</b> – the trigger can be configured for a specific key position on the keyswitch.
<b>Time Trigger</b> –the trigger is on at the specific time entered in the box provided, in the format hh:mm.



#### 

Your system will not comply with EN standards if you enable a trigger to set the system without a valid PIN being required.

## 16.4 Mapping Gates

Triggers are used with Mapping Gates, which are virtual outputs defined by the user that can be mapped to a physical output. There can be a maximum of 512 Mapping Gates.



For continuous output, when the trigger is a valid user code, both states must be the same, either both negative or both positive.



The following fields will be presented for each listed device.

- Output
- Keypad
- Description
- Timers

- Triggers
- 1. Click an output from the list.
  - ⇒ The following window will be displayed:

Mapping Gal Descrip Mappe Keypad Quick Tir Protec	te #: 2 ON OFF tion: MP1 d to: Show Expander Assignment Key: #1 mer: 10 1/10 Seconds tted: $\checkmark$	
	Trigger ON	
frigger - Trigger 2	Edge Negative	Add ON Trigger Remove Trigger
B. When ANY one trigger i ate will be triggered ON		
.B. When ANY one trigger i ate will be triggered ON	Trigger OFF	

### 2. Configure the fields described in the table below and click OK.

User Output #	The number is presented for reference and can not be programmed.		
Description	Enter a description for the gate. This is important as no mapping gate number, only the description, is displayed on the <b>Outputs</b> user page for turning on and off gates		
Mapped to	Click the button <b>Assign now</b> to get an overview to which controller / expander output the user output is assigned. To create a new controller/expander assignment:, click an output from the list and click the button <b>Assign selected output as mapping gate #.</b>		
Keypad Quick Key	A quick key is a '#' followed by a single digit pressed at the keypad. If a shortcut is configured and is pressed at the keypad, the user is prompted to turn the		

### output on or off

 Click on the Add ON Trigger button to configure triggers for turning the output on and turning it off. In both cases, a positive or negative edge of the trigger needs to be defined. See Triggers [→ 197] for details of configuring triggers.

### See also

Triggers [→ 197]

## 16.5 X10 Config – Settings

The X10 settings window allows you to configure the operation of X10 on the panel.



Settings A B C D E F G H		K L M N O P
X 10 Catting	_	
<u>x-10 Setting</u>	<u>5</u>	
	_	
Enable:	•	Check to enable X-10
Log:		Check to log X-10 commands

- 1. Activate the checkbox Enable to enable X10 operation on the panel.
- 2. Activate the checkbox Log to enable logging of all X10 events on the panel.
- 3. Click an alphabetic tab (A-P) to program X10 device triggers.
  - A list of programmable device triggers (1-16) will be presented for that alphabetic character:

X10 Config – Settings

### X-10 Device Triggers [A]

Unit	Active	Description	Trigger ON	Trigger OFF	RKD
1	Active	Hall light	2	2	#3
2	Active	Landing light	2	2	#8
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Unit number	This is the number (1-16) that is assigned to the device.	
Active	This field indicates if the device is active or not.	
Description	This field displays a description that is used to help identify the device – e.g. downstairs light (16 characters max).	
Trigger ON	This field indicates if a trigger has been programmed to activate the X10 device (1 - if a trigger is programmed, 0 - if not programmed).	
Trigger OFF	This field indicates if a trigger has been programmed to deactivate the X10 device (1 - if a trigger is programmed, 0 - if not programmed).	
RKD	This field indicates if the X10 device activation can be toggled by entering a code from the keypad.	

To edit a X-10 device:

- 1. Click a trigger from the list.
  - ⇒ The following window will be displayed:

🛋 Triggers for X-10 Device - A1		<u>a</u>	×	
Triggers for X-10 Device - A1				
Add triggers and details				
			_	
Enabled : 🔽				
Description :				
X-10 Keypad : #3	•			
lest X-10 Device -				
X-10 ON Triggers :			. 1	
	Edge	×4		
1 - Trigger 1	Positive	Add C		
2 - Trigger 2	Positive	🗙 Remove		
			-	
N.B. When ANY one trigger in this list has ALL of device will be triggered ON	it's conditions met then then X10	I		
X-10 OFF Triggers :				
Trigger	Edge	bbA 🖑	ן ר	
		V Domouro	۲ I	
		Remove	ן י	
N.B. When ANY one trigger in this list has ALL of it's conditions met then then X10				
uevice will be triggered orr				
	🛛 🥝 ОК	Cancel		

- $\label{eq:configure the fields described in the table below.$
- 3. Click Add.
- 4. In the following window click the button it to create a new trigger OR –

Mark a trigger from the list and click the button to edit the selected trigger.

⇒ The window **Trigger Configuration** opens.

Enabled Activate this checkbox to enable X10.	
Description	Enter a text to identify the X10 device (16 characters max).
X10 Keypad	Select a code. To activate the X10 device enter this code at the keypad.
Test X10 Device	

For further programming refer to page [ $\rightarrow$  197].

## 16.6 Configuring system latch and auto set outputs

Advanced	0
	Advanced Output

Aduanced Outp	ut Config		×
Advanced Odtp			
Latch Output Conf	ìg		
	Entry Time		3
	Fire Exit		3
	Unset		3
	Alarm Reset		٥
F	Resetting Alarm		6
	Engineer Exit		3
* N.B. At least one	option above	must bo	e selected.
Autoarm Output C	onfig		
On	💽 Output will re	emain on	if autoarm active
Keypad	Output will fo	ollow key	pad operation
Progressive	Output will give progressive warning of autoarm		
Pulse	5	3	
			OK Cancel

• Select the condition under which the latch output is activated:

Entry Time	Output turns on at the end of Exit time and off at the beginning of Entry time.
Fire Exit	Output turns on if any fire exit zones are active.
Unset	Output turns on if any user unsets system momentary
Alarm Reset	Output turns on if an alarm is reset momentary.

Resetting Alarm	Output turns on during a setting procedure if glass break/smoke open and not in alarm.
Engineer Exit	Output turns on when an engineer exits from Engineer mode momentary.
Keypad Valid PIN	Output turns on when valid user PIN entered on keypad and fire zone is active

• Select the behavior of the output.

On	Output will remain on if auto set is active.
Keypad	Output will follow keypad operation.
Progressive	Output will give progressive warning of auto set.
Pulse Time	Select the duration that the auto set output will remain active when pulsed.

## 16.7 Logo Configuration

Advanced



Logo Configuration

It is possible to load individual logos onto the SPCK620/623 keypads.

- Select Advanced > Logo Configuration.
- ⇒ The Logo Manager opens.
- 1. Click the Load button.
- 2. Select a file in one of the following formats (max. dimensions: 18 x 45 pixels)
- Raw binary 1 bit per pixel Files (\*.bin)
- Monochrome Bitmap Image (\*.bmp)
- Perform one of the following actions.

i	NOTICE
	Click the <b>Save</b> button after each change you make. Otherwise your settings will not be applied.

Magnify	Magnifies the logo from x1 to x4.
Save	Click the Save button after each change you make.
Close	Closes the Logo manger.
Clear	Clears the Logo.
Preview	Shows a preview of the Logo on the keypad.

## 16.8 Audio Configuration



With the Audio Manager you can record and play voice annunciations for the alarm system.

- Select Advanced > Audio Configuration.
- ⇒ The Audio Manager opens.

🥑 Audio Form		
Audio Manager		
This audio control permit to record a	and play sounds for the Alarm System	
Import/Export Text-To-Speech Audio I	mport Mic Record	1
Import/Export		
Export		
Save Custom Audio Profile		
r Import		
	Load From:	
Load Audio	Default Audio Profile 🗸 🗸	
Stored Message Replay		
Stop <<	Play Pause >>	]

### **General functions**

The following functions are available for all tabs within the Audio Manager.

Stop	The replay of the stored messages (audio bundle) messages (audio bundle) will be stopped.
<<	The stored messages (audio bundle) will be rewound.

6

Play	The stored messages (audio bundle) will be played back.
Pause	The stored messages (audio bundle) will be paused.
>>	The stored messages (audio bundle) will be fast-forwarded.
Generate AudioBundle	All single voice annunciation messages will be compressed and bundled in a downloadable file compatible with the SPC controller. The audio bundle is saved to the file spc audio.bak in the folder "C:\SPC Products\SPC Pro 2.0.0\Audio\Installations".

### Import/Export

Save Custom Audio	If you change the Default Audio Profile you can save it as a Custom Audio Profile. The Custom Audio Profile will be saved by default in the folder
Profile	"C:\SPC Products\SPC Pro 2.0.0\Audio\My Audio Profiles". The file can be used as often as required.
Import Audio	You can import the Default Audio Profile or the Custom Audio Profile that you have saved.

## 17 System options

- 1. Click the menu Options > System Options.
- **2.** Configure the following fields:

General		
Check Config file datestamp on panel connect	Check this box to enable time and date stamp checking of the configuration file on connecting to the panel. See page [ $\rightarrow$ 22]. This feature is enabled by default and acts as a safeguard informing you if there is a mismatch of information in the configuration file of the PC and the configuration file of the panel.	
	<b>Note</b> : By disabling this feature you will not be aware if any differences exist between your PC configuration file and the panel configuration file when you connect to the panel	
Allow custom language selection on supported panels	Check this box to enable the panel to use uploaded customer languages. See Uploading Custom Languages.	
Modem Options If you intend to connect to the panel via a modem then you may need to program some initialization parameters:		
Predial String	1. Enter the modem initialization string.	
Wait Time	<ol> <li>Enter the time period (in seconds) that the modem will wait before making a call to the panel (max. 1 – 60 seconds).</li> </ol>	

## 18 Upgrading the Panel

i	NOTICE
	Manufacturer Access is required for firmware upgrade operations and when enabled, is available for the completion of both controller and peripheral firmware upgrades. See System Options [ $\rightarrow$ 66].

## 18.1 Upgrading Controller Firmware

Prerequisite:

- SPC Pro is in Full Engineer mode.
- The correct controller firmware file (.fw) located on a directory on your hard disk.

To upgrade firmware on the SPC panel:

- 1. Click the menu Advanced.
- 2. Select Firmware Upgrade (Engineer Mode Only).
  - ⇒ The following window will be displayed:

Open						? 🔀
Look in:	😂 SPC Pro		~	3 🕫	بي 🥙	
My Recent Documents	Configurations Translations SPC_B104.fw SPC_B105.fw		ß			
Desktop						
My Documents						
My computer	File name:				*	Open
My Network	Files of type:	SPC Firmware (*.fw) Open as read-only			~	Cancel

- 3. Select the required firmware file.
- 4. Click Open.
- 5. Check the values of the fields.

i

!	NOTICE
	Once the firmware upgrade procedure has been started it cannot be cancelled. It is recommended that you double check the firmware version before upgrading.

### 6. Click Upgrade Now.

After the firmware is sent the panel will restart. The connection to the panel will be lost. You will need to re-connect once the panel has rebooted again.

The following window will be displayed when the upgrade procedure is completed:



- 1. Click **Continue** to disconnect form the panel.
- **2.** Re-connect to panel when the panel firmware has re-booted (re-booting takes approximately 40 seconds).
- ⇒ The Firmware upgrade is finished.



### WARNING!

## 18.2 Upgrading Peripheral Firmware

### Prerequisite:

- Product Pro is in Full Engineer mode.
- The correct peripheral firmware file (.pfw) is located on a directory on your hard disk.

To upgrade firmware on peripherals:

- 1. Click the Advanced menu.
- 2. Select Peripheral Firmware Upgrade.
  - ⇒ The following window will be displayed:

of syste	em devices :						
1, 1	Туре	S/N	Description	Hardware ID	Device Firmware	Available Firmware	Upgrade
<b>H</b>	Audio Expander [4 Input /	1000801321	Warehouse	1	1.01 Build2	676	
<b>H</b>	Indicator [1 Input]	1000801248		1	1.00 23NOV09	676	
	I/O Expander [8 Output]	102159801		1	1.07 27MAY09	656	
<b>B</b>	I/O Expander	3666269801		1	1.07 27MAY09	656	
	I/O Expander [8 Input / 2	102128801		1	1.07 27MAY09	656	
1 m	Keypad	101806801		1	2.08 29JAN09	676	
<b>F</b>	Comfort Keypad	166798801		1	1.00 23NOV09	675C	
	Door Controller [4 Input / 2	115834801		1	1.01 27MAY09	675C	
2		6776	1779 - C		0.00 []	675C	
		670 C	670 C		0.00 []	673)	
44				19219 12 1		<u> </u>	20

- Select the Send new peripheral firmware file to panel button.
  - ⇒ The following window will be displayed:

	opgrude		1
Selected Firmware File	Details		
File Path: R:\Project Tech packages\WP3.	inical Folders\SigNE 1 - SPC	T\Work	
Firmware Type	: SPC_PERIPHE	RAL_FW	
Firmware	: V3.1.0-B1		
Length	: 177992		
	: f23996f5		
e contains the following dev	ice firmwares :		
Туре	Hardware ID	Firmware	
Door Controller	1	1.05 18FEB11	1
Audio Expander	18	1.01 13DEC10	
Indicator	1	1.02 13DEC10	
) I/O Expander	12	1.09 13DEC10	
I/O Analysed	12	1.11 13DEC10	
) Key Switch	18	1.01 11NOV10	
Comfort Kounad	18	1.01 11NOV10	
сонногскеурац	1	2.09 09NOV10	
Keypad	18	2.03 02MAR10	
Keypad PSTN	<b>▲</b> ⊂.	o or conulto	
Keypad PSTN GSM	2	3.01/2000110	
Keypad PSTN GSM	2	3.01 200010	
Keypad PSTN GSM	2 Opgrade N	low	Cancel

- 1. Click on the **Upgrade Now** button to send the peripheral firmware file to the panel.
  - ➡ If the pfw file version differs from the controller version, a warning message is displayed.

The panel also checks if the firmware in the peripheral file supports the particular hardware versions of the installed peripherals and does not allow an upgrade for those peripherals which are not supported.

- **2.** The peripheral firmware file is only stored temporarily in the file system. When a new peripheral firmware file is uploaded, the current and new versions of the firmware for each peripheral and modem is displayed as shown below.
  - If the major version number of the firmware available for a device differs from the existing major number of a device, a warning message is also displayed.

	List	of EBUS and Modem devic	es on panel					
ist o	of syst	tem devices :	SIN	Description	Hardware ID	Device Firmware	Available Firmware	Ungrade
5	ED.	Audio Expander [4 Input /	1000801321	Warehouse	1	1.01 Build2	1.01 13DEC10	
		Indicator [1 Input]	1000801248	The choose	ĩ	1.00 23NOV09	1.02 13DEC10	
		I/O Expander [8 Output]	102159801		1	1.07 27MAY09	1.09 13DEC 10	1000
		I/O Expander	3666269801		1	1.07 27MAY09	1.09 13DEC10	
		I/O Expander [8 Input / 2	102128801		1	1.07 27MAY09	1.09 13DEC10	Passed!
		Keypad	101806801		1	2.08 29JAN09	2.09 09NOV10	
		Comfort Keypad	166798801		1	1.00 23NOV09	1.01 11NOV10	
		Door Controller [4 Input / 2	115834801		1	1.01 27MAY09	1.05 18FEB11	
	8		177	100		0.00 []		100
	8		1.55	100		0.00 []	1774	1.55

1. When the file is uploaded, select the devices that you wish to upgrade and click on the **Upgrade Selected Devices** button.

If the firmware for a peripheral device in the pfw file is older than the existing firmware of that device a **Downgrade Selected Device** button is available.

**2.** If the upgrade is successful for a device, its Upgrade status will change to 'Passed'.

The peripheral firmware can also be upgraded with the web browser or Fast Programmer.

## 18.3 Updating SPC Licenses

The **License Options** feature provides a mechanism for the user to update or add functionality to the SPC system, for example, for migrations, where installed peripherals, which are not licensed for SPC, need to be supported by an SPC controller.

- 1. Connect online to the panel.
- 2. Click on the Advanced menu.
- 3. Select the License Panel (Engineer Mode Only) option.
  - ⇒ The following dialog box is displayed:

License Key	
Enter License Key :	
X Cancel	Send Key to Panel

- **4.** Contact technical support with the requested functionality and quote current license key as displayed.
  - ⇒ If request is approved, a new license key is issued.
- 5. Enter the new key in the field provided and click the Send Key to Panel button.

➡ If the license key is changed successfully, the following dialog box is displayed:



# 18.4 Importing Custom Languages for the SPC Pro User Interface

You can import a custom language for the SPC Pro user interface which is completely independent from the custom language installed or at the panel for the browser and keypads. You can use a specific language for configuration in SPC Pro and a different language for the panel.

To import the SPC Pro language:

- 1. Click on the **File** menu in SPC Pro.
- 2. Select the Import SPC Pro Language File from the File menu.



• Select a language file from the file location dialog box and click Open.

•	NOTICE
	SPC Pro language files have a *.msg extension.

Custom Langua	ge					? 🔀
Look jn:	C SPC Pro		~	G 🗊	10	
My Recent Documents Desktop My Documents	Audio Configurations da-DK de-DE Drivers en-GB es-ES fr-FR ga-IE jit-IT Logos Logs nI-BE	inl-NL Pics PSConfigurations se-SE Translations				
My Computer	File <u>n</u> ame:	Ĺ			~	<u>O</u> pen
My Network	Files of <u>type</u> :	SPC Config Files (*.msg)  Open as <u>r</u> ead-only			~	Cancel

To use the new custom language:

- 1. Exit from SPC Pro.
- 2. Start the SPC Pro application again.
- **3.** At the login screen, click on the globe icon which indicates the custom language.

	Login
	Login
	Password:
	Cogin
© 2015, Vanderhilt International	
© 2015, Vanderbirt International	

This language will always be used for SPC Pro configuration until it is specifically changed again.
# 19 Activate keypad emulation

SPC Pro provides you with the ability to emulate a keypad when you are connected to the panel.

The keypad emulation is a virtual keypad providing access to programming and status information on the panel via the standard keypad interface. It is not directly linked to any physical keypad on the system and as such will not retain the attributes of any physical keypad.



- Click the icon in the config mode toolbar.
- ➡ The keypad will be displayed on the screen providing you with the following functionality.

### System information

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The keypad display will update in real time to match information that is displayed on an actual keypad connected to the panel (i.e. time, date information alerts detected on the panel, etc.).

### Access to programming

- Enter the engineer PIN by clicking on the numbered buttons. (see Installation & Configuration Manual for details of default Engineer PINs.)
- ⇒ The display will update accordingly as digits are entered.
- All of the keypad programming options will be presented as detailed in the panel specific SPC Installation&Configuration Manual.



1	Live panel status information	
2	Click on the buttons to enter programming codes	
3	Click to exit the keypad emulation	

4 Click on the navigation buttons to move through programming menus

# 20 Connecting to the panel

# 20.1 Ethernet interface

IP



Connect

1	JP9 SPG4XXX
2	Ethernet port
3	To Ethernet port on PC



If the SPC Ethernet interface is connected to an existing Local Area Network (LAN), please consult the network administrator for that LAN before connecting to the panel. Default IP Address: 192.168.1.100

### Connect the cable

- Connect an Ethernet cable from the Ethernet interface on the PC to the Ethernet port on the controller board
  - OR –

If connecting directly from a PC then a cross over-cable must be used. See page [ $\rightarrow$  253].

⇒ The LEDs to the right of the Ethernet interface indicate a successful data connection (Right LED on) and Ethernet data traffic (Left LED flashing).

### Determine the IP address of the SPC controller

1. Entering the Engineer mode (See Engineering PINs).

- 2. Using the up/down arrow keys, scroll down COMMUNICATION option and press SELECT.
- 3. Scroll to ETHERNET PORT and press SELECT.
- 4. Scroll to IP ADDRESS and press SELECT.

#### SPC Pro

- 1. Start the program SPC Pro.
- 2. Select an installation.
- 3. Click the button Configure.
- 4. Click the button Connect to Panel in the Config Mode Toolbar.
  - ⇒ The following window will be displayed:

Connection	8	×
Select Comms Path:	G	
Connect to : Installation 3 [5]		
<ul> <li>IP Connection - 192.168.1.100</li> <li>Direct - USB</li> <li>Direct - Serial R5232</li> <li>Modem 1</li> <li>Modem 2</li> </ul>		
Conr	nect	

- 5. Select the option IP Connection.
  - ⇒ The IP address will be displayed.
- 6. If the IP address needs to be changed, edit the installation details and enter the correct IP address in the field IP address. See page.
- 7. Click Connect.
- $\Rightarrow$  The connection is finished.

# 20.2 USB interface

The USB port on the SPC controller connects to a PC via a standard USB type A to type B cable.

To make a USB connection from the SPC controller to your PC:

- 1. Copy the batch file SPC\_USB.bat to your PC.
- 2. Run the file.
- 3. Connect the USB cable from the SPC controller to a USB interface on your PC.
- **4.** Start the program SPC Pro.

- 5. Select an installation.
- 6. Click the button Configure.
- 7. Click the button Connect to Panel in the Config Mode Toolbar.
  - ⇒ The following window will be displayed:

Connection	8	×
Select Comms Path:	G	
Connect to : Installation 3 [5]		
<ul> <li>IP Connection - 192.168.1.100</li> <li>Direct - USB</li> <li>Direct - Serial R5232</li> <li>Modem 1</li> <li>Modem 2</li> </ul>		
SPC Siemens Intrunet SPC USB Local Connect	ion (C 💌 ect	

- 8. Select the option Direct USB.
- **9.** Ensure that the correct serial port networking connection is selected in the drop down window.
- 10. Click Connect.
- $\Rightarrow$  The connection is finished.

# 20.3 Serial port

The SPC controller serial port (RS232) can be used to provide access to the SPC Pro. The serial cable detailed below must be used and the system must be configured accordingly. Once the serial cable has been connected and the serial port on the panel configured accordingly, you can connect directly to the panel from SPC Pro.



To make a serial connection from a PC to the SPC controller:

- 1. Connect the DB9 serial port on the PC to the RJ45 interface on the SPC labelled RS232.
- 2. Using the following cable configuration:



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Serial port 2 shares a communications channel with the back-up modem. If a back-up modem is installed, then it must be removed to enable serial communications on this serial port. The Serial Port 2 interface is also available as a terminal block connection (TX, RX, GND).

To configure the serial port via keypad:

- 1. Enter Engineer programming (Default code 1111) from a keypad connected to the SPC controller.
- 2. Enter the Full Engineer mode.
- 3. Select COMMUNICATION.
- 4. Scroll down to SERIAL PORTS and press SELECT.
- 5. Select the serial port you wish to connect to (Port 1 or 2).

- 6. In the TYPE Menu select the PRINTER option to access the SPC event log or TERMINAL to access system information.
- 7. In the BAUD RATE menu select 115200.
- 8. In the DATA BITS menu select 8 DATA BITS.
- 9. In the STOP BITS menu select 1 STOP BIT.
- **10.** In the PARITY menu select NO PARITY.
- **11.** In the FLOW CONTROL menu select RTS/CTS CONTROL.

To configure the serial port via SPC Pro:

- 1. Start SPC Pro.
- 2. Select an installation.
- 3. Click the button Configure.
- 4. Click the button **Connect to Panel** in the Config Mode Toolbar.
  - ⇒ The following window will be displayed:

Connection	8	×
Select Comms Path:	G	
Connect to : Installation 3 [5]		
<ul> <li>IP Connection - 192.168.1.100</li> <li>Direct - USB</li> <li>Direct - Serial RS232</li> <li>Modem 1</li> <li>Modem 2</li> </ul>		
Comport : 5		•
Conn	ect	

- 5. Select the option Direct Serial (RS232).
  - ⇒ The Comport drop down menu will display the number of COM ports configured on your PC.
- 6. Select the COM port that the serial cable is connected to.
- 7. Click Connect.
- $\Rightarrow$  The connection is finished.

## 20.4 PSTN modem



#### PSTN Connection

1	Remote PC with browser
2	PSTN modem
3	PSTN network
4	Telephone line
5	PSTN modem
6	SPC controller
7	JP9 SPG4XXX

The SPC controller can be accessed via a remote connection over a PSTN telephone line.

Prerequisites:

- A PSTN line must be connected to the controller.
- On the remote side of the connection the user must have a PSTN modem installed on a PC with access to a PSTN line.

### Configure the modem on the SPC controller via the keypad:

- A PSTN modem is installed on the controller. Please refer to the panel specific SPC Installation&Configuration Manual.
- 1. Connect the phone line to the A, B screw terminals on the connector at the top of the modem.
- 2. Enter Engineer programming.
- 3. Scroll to COMMUNICATION and press SELECT.
- 4. Scroll to MODEMS and press SELECT.
- 5. Select PRIMARY or BACKUP and press SELECT.
  - ⇒ Parameters and details, if applicable, are displayed for editing as shown in the table below.

**6.** Create a dial-up connection on the remote PC using the phone number of the telephone line connected to the PSTN module on the SPC.

Enable Modem	Set to Modem Enabled.
Туре	Displays the type of modem (PSTN).
Country Code	Select the relevant country code (Ireland, UK, Spain, etc).
Answer mode	Select numbered rings. This tells the modem to wait for a number of rings before answering the incoming call.
Modem Rings	the number of rings to allow before answering the call (8 rings max).

### On Windows XP

- 1. Open the menu Control panel > Network Connections > Create New Connection.
  - ⇒ The following window will be displayed:

New Connection Wizard				
5 A	Welcome to the New Connection Wizard			
	This wizard helps you:			
	Connect to the Internet.			
Connect to a private network, such as your workplace network.				
	To continue, click Next.			
	< Back Next > Cancel			

- 2. In the Network Connection Type window, select "Connect to the Internet".
- 3. In the Getting ready window choose "Setup my connection manually".
- 4. In the Internet connection window choose "Connect using Dialup modem".
- 5. In the **connection name** window enter the connection name e.g. "SPC Remote connection".
- 6. In the Phone number to dial window, enter the phone number of the PSTN line connected to the PSTN modem.
- **7.** In the connection availability window choose whether you want this connection to be available to all users.

New Connection Wizard					
Internet Account Information You will need an account name and password to sign in to your Internet account.					
Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)					
User name:	SPC				
Password:	•••••				
Confirm password:	••••••				
Make this the default Internet connection					
	< Back Next > Cancel				

In the internet account information window enter the following details:

- 1. Username: SPC
- **2.** Password: password
- 3. Confirm Password: password
  - A window with the title "Completing the new connection wizard" will be displayed.
- 4. Click the Finish button to save the Dial-up connection to your PC.

#### Activate the dial-up connection

- Click the icon located in the control panel.
  - ⇒ The following window will be displayed:

Network Connections						
File Edit View Favorites Tools Advanced Help						
Search ▷ Folders :						
Address 💊 Network Connections	Address 💊 Network Connections 📃 💽 Go					
Notwords Tools	Name	Туре				
Network Tasks ^	Dial-up					
🛐 Create a new connection	▶ SPC Remote connection	Dial-up				
Change Windows Firewall settings	L ON or High-Speed Internet					
	LAN	LAN or High-Speed Inter				
	SBT_LAN	LAN or High-Speed Inter				
Network Troubleshooter						
Other Places 🕆						
🦻 Control Panel						
🧐 My Network Places						
My Documents						
🤡 My Computer						
Details 🕆						
Network Connections System Folder						
	_1	-				

The PC will make a data call to the PSTN line connected to the PSTN module. The PSTN module will answer the incoming data call after the designated number of rings and establish an IP link with the remote computer.

An IP address will be automatically assigned to the remote PC by the SPC system.

- 1. To obtain this IP address right click the icon Dial-up.
- 2. Click the tab Details.
- ⇒ The IP address will be displayed as the Server IP address. This is the IP address to specify in the SPC Pro connection type window. See page [→ 26].

For details on connecting remotely to the panel with a GSM modems see Appendix.

# 21 Using the Fast Programmer

# 21.1 Installing the Fast Programmer on a PC

### For Windows XP

- $\triangleright$  SPCPro must be installed on the Windows XP PC.
- 1. Connect the Fast Programmer to a USB interface on the PC.
  - ⇒ The Found New Hardware wizard is displayed.
- 2. Press Next.
- 3. Click Continue Anyway.
  - At the end of the installation process, a window indicates that the installation process is complete.
- 4. Click Finish.

### For Windows 7

- ▷ You have administration privileges.
- ▷ SPCPro must be installed on the Windows 7 PC.
- Connect the Fast Programmer to a USB interface on the PC.
- ⇒ The drivers are installed automatically

### **View SPC Fast Programmer**

- Open the Windows menu Start > Control panel > System > Device Manager.
- ⇒ The Fast Programmer driver will be listed under the Ports (COM & LPT) directory as SPC USB Fast Programmer (COM X) (X = com port number).

🖳 Device Manager	8 _ O ×
File Action View Help	
🗄 🖳 😨 Computer	
庄 🐨 Disk drives	
📋 🖳 📴 Display adapters	
📋 🥹 DVD/CD-ROM drives	
🗄 🖶 🗃 Floppy disk controllers	
🔁 🖾 Human Interface Devices	
E Controllers	
Imaging devices	
🗄 🕀 🦢 Keyboards	
I I I I I I I I I I I I I I I I I I I	
I I I I I I I I I I I I I I I I I I I	
Ports (COM & LPT)	
Communications Port (COM1)	
ECP Printer Port (LPT1)	
Siemens Intrunet SPC USB Fast Programmer (COM6)	
Siemens Intrunet SPC USB Local Connection (COM5)	
Harrison Processors	
E Sound, video and game controllers	
Him System devices	-

# 21.2 Connecting to the Fast Programmer



You cannot connect to the Fast Programmer if you are in Config mode.

When the Fast Programmer has been successfully installed on your PC, start SPC Pro.

- Click the button **Fast Programmer** on the main installation page.
  - ⇒ The following window will be displayed.

🧑 Connect	to Fast Programmer	8	×
Fast Pro	ogrammer :		
ŝ	Select : Siemens Intrunet SPC USB Fast Program	nmer (C	•
	Connect		

The window displays the serial port that the Fast Programmer has been detected on.



If the SPC Pro does not detect the fast programmer a pop-up message will be displayed.

Please re-install the fast programmer and ensure that it is displayed in the COM ports section of the device manager.

- Click Connect.
  - ⇒ The following window will be displayed.

#### 😼 Fast Programmer Manager Files found on Fast Programmer : Version : BUILD 16 Port: 5 B FileName Size (Bytes) Date 300 31b1.cfg 4520 04/02/2011 15:04:08 1 Import from Programmer 2 SigNET\_1.3b\_EU.fw 688411 29/09/2008 10:28:45 3 test.cfg 5112 29/03/2011 14:14:37 4 TEST2.cfg 3993 29/03/2011 14:21:22 Export to Programmer 5 latest.cfg 5034 22/02/2011 14:57:54 6 SPC.cfg 3258 01/01/2006 01:21:28 Copy file to programmer Capacity: 1,047,296 Bytes % Used Space % Free Space 68 Warning : Do not unplug the Fast Programmer while the 'Fast Programmer Manager' form is open.... Delete File 2 Refresh Delete All Files Close

This window will display a list of the files found on the device along with the available free memory remaining for storing further configurations.

!	NOTICE
	Do <b>NOT</b> unplug the Fast Programmer while the window <b>Fast Programmer</b> <b>Manager</b> is open. Doing so will corrupt the data stored in the fast programmer device.

The following operations can be performed:

- Importing Configuration Files from the Programmer [→ 231]
- Exporting Configuration File to the Programmer [→ 232]
- Copying Firmware and Language Files to the Programmer [→ 233]

# 21.3 Importing Configuration Files from the Fast Programmer

To import a configuration file from the SPC Fast programmer:

- **1.** Click on the file you require.
- 2. Click on the button Import from Programmer.
  - $\Rightarrow$  The following window will be displayed.



- 3. Click Yes.
  - ⇒ The following window will be displayed:

Receiving file from Programmer	
100%	Capa

On loading the configuration file the following window will be displayed:

Exporting Configuration Files to the Fast Programmer

Enter details for this in	stallation	
SPC Pro ID :	0 N.B. Must be unique ID (1	-999999)
Installation Name :		
Installation Address :		
Panel Type :	SPC6300 -	
Firmware Version :	V3.4	1
*Region :	Select Region	1
*Grade :		Î.
Group :	DEFAULT GROUP	1
Panel IP Address :	192. 168. 1 . 100 IP Port : 50000	
Phone Number 1:		1
Phone Number 2 :		I
Password :	******	1

i

i

The window Installation Details displays the basic installation configuration data of the loaded file. If you already have an installation on SPC Pro with the same Installation ID you will be required to change the ID before proceeding.

• Click **OK** to import the file.

It is strongly recommended that you review the configuration details of a file imported from a fast programmer BEFORE sending that configuration to a panel.

# 21.4 Exporting Configuration Files to the Fast Programmer

To save your configuration settings to the fast programmer:

- 1. Click the button Export to Programmer.
  - ⇒ The following window will be displayed:

🥺 Programmer File Export	8	×
Export file to Fast Programmer:		- 1
Select Installation to Export : 1 - Office Filename on Programmer : Exp1 .CFG	•	1
E	xport	וו

- 2. Select the installation you wish to export from the drop down menu Select Installation to Export.
  - A list of all of the installation configurations currently available on SPC Pro will be displayed.
- **3.** Enter the name of the configuration file in the field **Filename on Programmer** (characters 'a-z' and digits '0-9' are permissible).
- ⇒ This name will appear on the file when you attempt to import it from the programmer.

Enter a unique name for the installation. If a configuration file with the same name exists on the Fast programmer the warning message shown will be displayed and you will be prompted to re-name the configuration.



# 21.5 Copying Firmware & Language Files to the Fast Programmer

Controller and peripheral firmware files and custom language files can be copied to the Fast Programmer for upgrading on a panel using a keypad for SPC browser.

!	NOTICE
	The last version of firmware may not fit on older Fast Programmer models. You may need to upgrade your Fast Programmer to copy new firmware versions.

Copying Firmware & Language Files to the Fast Programmer

	🕒 FileName	Size (Bytes)	Date	So
	31b1.cfg	4520	04/02/2011 15:04:08	Import from Programmer
	SigNET_1.3b_EU.fw	688411	29/09/2008 10:28:45	
ŝ.	test.cfg	5112	29/03/2011 14:14:37	3-
ŧ,	TEST2.cfg	3993	29/03/2011 14:21:22	Export to Programmer
5	latest.cfg	5034	22/02/2011 14:57:54	Export to Programmer
				Capacity : 1,047,296 Bytes  % Used Space % Free Space
				68
Warr Mana	ing : Do not unplug the F ager' form is open	ast Programmer whi	le the 'Fast Programmer	

To copy a file to the Programmer.

- 1. Click on the **Copy file to programmer** button in the File Programmer Manager dialog box.
- 2. Select the required firmware or language file from the file location dialog box.
- ⇒ The file details are displayed as shown.

	<u>لنا</u>
Copy Firmware to P	rogrammer 🚽
Selected Firmware F	ile Details
File Path: C:\MR Working Dir Notes\SPC_2.2.0.	rectory\2.2 _2.3 Release fw
Firmware Type :	SIGNET
Panel Type :	SPC
Firmware :	2.2.0
Length :	706016
CRC :	d9767653
Copy N	ow Cancel
	12

- Click on the **Copy Now** button.
- ⇒ The file is displayed in the Fast Programmer Manager dialog box.

Firmware and custom languages are upgraded on a panel using the keypad or SPC browser. Refer to the *SPC Installation and Configuration Manual* for details.

#### Audio/Video Verification 22

- To set up Audio/Video Verification on an SPC system:
- 1. Install and configure Audio Expander (s)
- 2. Install and configure Video Camera(s).
- 3. Install and configure Audio Equipment.
- 4. Configure Verification Zone(s).
- 5. Test audio playback from verification zones.
- 6. Assign Verification Zone(s) to physical zone(s).
- 7. Configure Verification Settings.
- 8. View images from verification zones in web browser or SPC Pro.

!	NOTICE
	Keypads and access control may be disabled for several minutes while sending an audio file to the panel, depending on the size of the file.

#### **Configuring Video** 22.1

### Overview

Cameras are used for video verification. The SPC panel supports a maximum of four cameras. Only IP cameras are supported and the panel must have an Ethernet port.

i	NOTICE
	Cameras must not be shared with other CCTV applications.
	Cameras can only be configured with the web browser or SPC Pro. Configuration with the keypad is not supported. SPC Pro provides an easier method of configuration and is recommended.
	The panel supports two camera resolutions:

- 320X240
- This setting is recommended if you want to view images on the browser)
- 640X480 (with some restrictions). •

The following cameras are supported in addition to other generic cameras:

- Vanderbilt CCIC1410 (1/4" VGA IP Colour Camera) •
- Vanderbilt CFMC1315 (1/3" 1.3 MP Indoor Dome Colour Camera)

A command string is available as a default to access configuration details for the above cameras directly. Other generic IP cameras require a command string to be entered manually.

### Adding Cameras





Verification

1. Click on the Cameras tab.

⇒ A list of any previously configured cameras is displayed.

g camora	Main Camera	Camera Type CCIC1410	IP Address 0.0.0.0
	Main Canlera	CEICI4IO	0.0.0.0

- 2. Click on the Add button to add a new camera.
- **3.** Click on an existing camera to edit the configuration for that camera.
- 4. Configure the camera. (See Configuring a Camera  $[\rightarrow 237]$ )

## 22.1.1 Read Camera Settings

When the **Read Camera Settings** button is clicked, SPC Pro will connect to the camera to read its settings.



SPC pro uses the IP address and TCP port shown in the configuration dialog box. If authentication is enabled, it will also use the configured user name and password.

This operation will timeout and fail in any of the following cases:

- The camera is off.
- The camera is not connected.
- The IP address or port is wrong.
- The user name or password is wrong.

# 22.1.2 Configuring Cameras

The Add IP Camera dialog box is displayed when:

- the Add Camera button is pressed on the main Cameras screen to manually add a new camera.
- a camera is clicked for editing on the main Cameras screen.



#### Configure the following settings:

General Settings				
Camera ID	System generated Camera ID.			
Description	Enter a description to identify this camera.			
Туре	<ul> <li>Select from one of the following camera types:</li> <li>Generic</li> <li>Vanderbilt CCIC1410</li> <li>Vanderbilt CFMC1315</li> </ul>			
Camera IP	Enter the IP address of the camera.			
Camera Port	Enter the TCP port the camera listens on. Default is 80.			
Command String	Enter the command string to be sent to the HTTP server on the camera in order to obtain images. This string should include the user name and password for the camera. Consult the camera documentation for the specific string required for the camera type selected. SPC Pro can configure this automatically if connected to the camera over a LAN.			
	The default command string for a Vanderbilt CCIC1410 or CFMC1315 camera with no password is "/cgi-bin/stilljpeg".			
	Disabled for non-generic cameras.			
Pre-event images	Enter the number of pre-event images to record (0 - 16). Default is 8.			
Pre-event interval	Enter the time interval, in seconds, between pre-event images (1 - 10). Default is 1 second.			
Post-event images	Enter the number of post-event images to record $(0 - 16)$ . Default is 8.			
Post-event interval	Enter the time interval, in seconds, between post-event images, in seconds (1 - 10). Default is 1 second.			
Camera Settings (Vanderbilt CCIC1410 and CFMC1315 cameras only)				
Authentication	Check this box if authentication is required for the camera.			
Username	Enter a login username for the camera for authentication.			
Password	Enter a login password for the camera for authentication.			
Resolution	Select the jpg picture resolution for the camera. (320 x 240 or 640 x 680) <b>Note:</b> The 320 x 240 setting is recommended if you want to view images on the browser.			



Camera Settings can be modified by an engineer and updated on the remotely on the camera.

The following functions are available in this dialog box.

Button	When disabled	Function
Read Camera Settings	Always disabled for generic cameras.	Enables SPC Pro to communicate with the camera to read its settings.
Advanced Camera Settings	Always disabled for generic cameras. Enabled for other types of cameras only after the button <b>Read Camera Settings is</b> pressed and settings are successfully read.	Opens a direct browser connection to the camera for configuration purposes.
Camera Snapshot	Never.	Attempts to obtain a snapshot from the camera to test functionality.
Send Settings to Camera	Always disabled for generic	Sends configuration settings to the

cameras. camera.

Click on the **Save** button to save the settings to the configuration file.

Click on the **Remove** button to remove the current camera configuration from the configuration file.

Click on the **Cancel** button to cancel any configuration and to return to the previous settings.

# 22.2 Configuring Verification Zones

To create a verification zone:

Advanced	
	Verification

1. Click on the Verification tab.

⇒ A list of any existing verification zones is displayed.

V-Zone	Description Back Warebouse	(··) Audio	Video	
	Dack Warehouse	B S: AUUIO TESC	a contra	

- 2. Click on the Add New verification Zone button.
  - $\Rightarrow$  The following dialog box is displayed.

Select A/V sourc	es for this Verification zone	
Description:		
Audio:	🗒 Audio Expander - [5: Audio Test]	~
Video:	No Video	~

- 3. Enter a **Description** for the zone.
- 4. Select an Audio expander from the drop down list.
- 5. Select a Video from the drop down list.
- 6. Click on the Save button.
- Assign this verification zone to a physical zone on the SPC system. (See Editing a Zone [→ 120])

The audio input and output for the verification zone can be tested by the engineer only in SPC Pro.

#### See also

■ Editing a zone [ $\rightarrow$  120]

### 22.2.1 Testing Audio

The audio input and output for the verification zones can be tested by the engineer only in SPC Pro.

[ **i** ]

i

In order to carry out these tests, the PC running SPC Pro must be fitted with a headset or speakers and microphone. Ensure that the speaker volume is not muted.

### 22.2.1.1 Testing Audio Playback

- 1. Click on the Verification Output Audio Test button in the Verification Zones tab.
  - ⇒ The following dialog box is displayed.

Coloct Audio Filo y	metalak kudia Gia kalasa di wa		
Select Addio File :		0	지경
Verification Zone :	Select Verification zone 🔹	3	
Loop Count :	1	3	
Volume :	(1 - Max.)	3	

- 2. Select an Audio File to send to the panel. The audio files listed contain annunciation messages that are installed with SPC Pro. The files are Speex encoded.
- **3.** Select a **Verification Zone** to test. Only zones that are online and have an audio device configured and online can be tested.
- **4.** Set the **Loop Count** to the number of times that the audio file will be played repeatedly to enable longer tests. The maximum count is 100.
- 5. Set the **Playback Volume** for the audio device. Default is 7. This setting sets a maximum limit for the volume on the device in order to protect it.
- 6. Click on the Play Audio via Verification Zone button to play the file.
  - ⇒ The following message is displayed.
  - ⇒ SPC Pro calculates how long it will take to playback the audio sample (17.1 seconds in the following example) by multiplying the time per sample by the loop count, including an interval of one second between replays. This time does not include the time needed to upload the audio file to the panel.





### 🖏 Verification Zones [ 🛅 Cameras

#### Verification Zones

	Verification Audio	Dutput Test	
	Play test file on verif	ication audio device	
	Select Audio File :	(••) 102.spx	
	Verification Zone :	2 - Reception [Audio Online]	
	Loop Count :	5 🕂	6
	Volume :	/ (1 - Max.)	3
C Pro			
👩 The audio te	est duration time for this selection	on will be 17.1 seconds.	
You cannot	cancel the test after it has starte	d Continue?	

The following dialog is displayed during playback.

Select Audio File	: (•) 102.spx 🔹 🚺
Yerification zone	: Playing audio file at 87200e 2 🕞
Loop Count	21%
Yolume	: 📜 , , , / (1 - Max.) 🚺

### Playing the audio file on the PC

• Click on the speaker button beside the Select Audio File field.



The audio file will be played on the PC. This is useful to compare playback with that on the panel.

## 22.2.1.2 Testing Audio Recording

- 1. Click on the Verification Input Audio Test button.
  - ⇒ The following dialog box is displayed

caudio from verification audio d	evice
🕵 1 - VZone 1 [Audio Online]	<u> </u>
1 🕂 (1 - 30 Seconds)	
All Play back captured audio	
	I - VZone 1 [Audio Online]         I - VZone 1 [Audio Online]         I - 30 Seconds)         Capture Audio Now         I Play back captured audio

- 2. Select a Verification Zone to test. Only zones with an audio device configured and online can be tested.
- 3. Select the amount of time for the **Recording Duration.** Range is 1- 30 seconds.
  - ⇒ A progress bar is displayed showing the elapsed recording time.
  - ⇒ The captured audio is then downloaded to the PC which is indicated by another progress bar.

Verification Zone :	🧠 2 - Reception [Audio Online] 🔹	3
Record Depation :	10 (1 - 30 seconds) Recording audio at panel	
	Capture Audio Now	
	Play back captured audio	

- 4. Click on the Play Back Captured Audio button which is now enabled.
  - $\Rightarrow$  The recorded audio is played on the PC.

# 22.3 Configuring Verification Settings

Note: The following settings apply to all verification zones [ $\rightarrow$  239].





- 1. Click on the Settings tab.
  - ⇒ The following screen is displayed.

Advanced - Verification Settings		
🕒 Settings 🖏 Verification Zones 🔟 Cameras	1	
Verification Settings		
Audio Settings		
Pre-event recording	10 Seconds	Duration of pre-event recording in seconds. (0-120)
Post-event recording	30 📩 Seconds	Duration of post-event recording in seconds. (0-120)

**2.** Configure the following settings.

Pre-event recording	Enter a required duration of pre-event audio recording, in seconds (0 - 120). Default is 10.
Post-event recording	Enter a required duration of post-event audio recording, in seconds (0 - 120). Default is 30.

# 22.4 Viewing Video Images

Video images from the configured cameras can be viewed in the SPC Pro. Unlike the web browser that can display all configured cameras images simultaneously, SPC Pro can only display one camera image at a time.

To view a camera image:

General	
	Status

- 1. Click on the Cameras tab.
  - ⇒ The Online Camera Summary dialog box is displayed.
- 2. Select a camera from the list of configured cameras.
  - ⇒ An image from this camera is displayed.

🤌 Installation Details	
General - Status	
🐌 Summary 🔯 Zones 🛅 Areas 🔬 System Alerts 涅 X-BUS 🥅 Keypads 📱 Door Controllers 🕎 Doors 🔞 Cameras	
Online Camera Summary	
Refresh Cameras Camera 1 - [10.100.89.203] Name : Warehouse 💈 🗙	

3. Click on the **Refresh** icon to manually refresh the image.

#### 2

To view images from other cameras, cancel the current image and select a new camera from the list in the **Online Camera Summary** dialog box.

Note: SPC Pro can display images at resolutions of 320 x 240 and 640 x 480.

# 23 Seismic Sensors

Vibration sensors, also called seismic sensors, are used to detect intrusion attempts by mechanical means, such as drilling or making holes through walls or safes.

Support for seismic sensors is available only if the installation type for the panel is 'Financial'.

There are several ways to test seismic sensors. The simplest way to test seismic sensors is by hitting a wall or safe and seeing if the zone opens during a walk test. This means of testing is available with all types of seismic sensors.

If the seismic sensor is installed with a test transmitter, the following test options are available:

- Manual testing initiated at the keypad or with SPC Pro (not supported by the browser);
- Automatic testing on a periodic basis or when the panel is set using the keypad.

The test transmitter is a small high frequency vibrator that is attached a short distance from the sensor on the same wall. The test transmitter is wired to an output on the panel or an expander.

### Configuring Seismic Sensors in the Panel

- Configure a seismic zone. Seismic sensors must be assigned to a zone. (See Editing a Zone [→ 120])
- 2. Set the attributes for the zone as shown.

one Configuration Zone Config		
Edit the zone	details	
200	e: 8	
Descriptio	n : Seismic	
Description 7	A. Cashallar Tasak	
INPL	IC: Controller - Input	.0
Тур	e: Seismic	×
Are	a: 4 - Vault	*
Calenda	ar: <no calendar=""></no>	[0]     [1]     [2]
¥-Zo	ne 3-[]	
Attributes -	<u> </u>	
	3 14	· •
		Report Only
T (A Erdu		
🔽 👗 24 Ho	ur 🖓	😥 Kevarm Fullsat
Local	1	😥 Keyarm Unset
Double	s Knode	1 Shunti
📋 🉀 Chime		Tech Zones Report
🔲 🔀 Inhibit		🔁 Tech Zonies Display
📋 😴 Norma	lly Open	A? Tech Zones Audible
🔲 🍕 Silenti		👌 Tech Zones Delay:
🔽 🖺 Log		Armed Report Only
🔲 🥸 Frequ	ent Use	🔐 Fire Pre-alarm
Ext Q	pen	歳 Fire Recognition
🛛 🖸 🎗 Autom	atic sensor Test	🍇 Unset Local
Delay		
		OK Cancel

- **3.** Enable automatic testing of the sensor with the **Automatic Sensor Test** attribute.
- 4. Select a calendar to control the seismic zone, if required.
- 5. Assign this zone to a verification zone if audio/video verification is required..
- Configure timers to specify how often to test seismic zones (default is 7 days) and the duration of the tests. (Automatic Seismic Test zone attribute must be set). (See Timers [→ 74])

🙎 Identification 🛛 🔮 Standa	irds 🛛 🖅 O	ptions 🔵 🤇	Timers 🧕	Clock	Language  🎇 SPC Pro/SPC Safe
Custom Timons					
System timers					
🖏 Timer	Value	Units	Min	Max	P Description
Soak	14	Days	1	99	Number of days a zone stays in soak test before returning to normal op
Mains Delay	0	Minutes	0	720	Duration that a mains fault needs to be present before it is reported.
Dialler Delay	30	Seconds	0	30	Delay period after an alarm has been activated before system makes a
Keypad Timeout	30	Seconds	10	300	Duration a keypad will wait for key entry before it leaves the menu.
Engineer Access	0	Minutes	0	999	Duration when engineer access will automatically be revoked.
Bell on Fullset	0	Seconds	0	10	Duration that external bell will be active to indicate Fullset.
Strobe on Fullset	0	Seconds	0	10	Duration that external bell strobe will be active to indicate Fullset.
Final Exit	7	Seconds	1	45	Duration to delay setting after final exit is closed.
Tech. Delay	0	Seconds	0	9999	Number of seconds to delay triggering of tech.zones with tech.delay at
Fail to Set	10	Seconds	0	999	Duration to display fail to set message on keypads (0 = until valid PIN e
Frequent Time	336	Hours	1	9999	Duration a zone with 'frequent' attribute must open within (only used fo
Fire Pre-Alarm	30	Seconds	1	999	Period in which a fire alarm is not reported for zones with 'Fire Pre-alarn
Fire Recognition	120	Seconds	1	999	Extra time allowed to see if there is a fire for zones with 'Fire Pre-alarm'
Keypad Language Timeout	10	Seconds	0	9999	Duration a keypad will wait in idle before switching language to default
Seismic Sensor Autotest	168	Hours	12	240	Average test period for seismic automatic tests.)
Alarm Abort	30	Seconds	0	999	Duration after a reported alarm in which an alarm abort message can be
Max Seismic Test Duration	30	Seconds	3	120	Time after a reported alarm in which an alarm abort message can be rep
RF Output Time	0	Seconds	0	999	Time the RF output will remain active on system.

 Configure an output for testing a seismic zone. (See Output Types and Output Ports [→ 87])

The output can be assigned to either the system or an area, if the panel is configured to use areas as is usually the case in financial environments. The output should only be assigned to the system if the panel does not use areas.

🥏 Output Edit	
Edit Output 1	
Configure Outp	ut settings
Output Mapping :	
🖌 🗹 Output Type (Ma	pping)
System Output	4 - Vault
Area Output	Seismic Test
O Zone Mapping	Seismic Test
Mapping Gate	Modern 1 Line Fault
O Door Output	Modem 1 Faiure
Keyswitch	Modem 2 Failure Battery Low
Description :	
Mode :	Continuous
Retringer	
On Time :	
Off Time :	
Invert :	
Log :	
Calendar :	No Calendar >
	OK Cancel

#### See also

- Timers  $[\rightarrow 74]$
- Configuring an Input/Output Expander [→ 94]
- ⓐ Outputs types and output ports  $[ \rightarrow 87 ]$
- Editing a zone [ $\rightarrow$  120]

# 23.1 Seismic Sensor Testing

Seismic zones must be configured in order for both manual and automatic tests to be available. The results of either manual or automatic testing are stored in the system event log.

During a seismic test, one or more seismic zones are tested. When a zone is tested, all other zones in the same area are temporarily disabled as there is a single seismic test output per area

## 23.1.1 Manual and Automatic Test Process

A manual or automatic test operates as follows:

- 1. The panel activates the Seismic Test Output for the appropriate area(s) in which the seismic zone(s) are to be tested.
- 2. The panel then waits for all seismic zones under test to open and then verifies that all seismic sensors in the area enter the alarm state within the time configured for the 'Seismic Test Duration'. Any zone(s) that have not opened within the maximum period are deemed to have failed the test.
- 3. When all seismic zones in the area are open or the maximum Seismic Test Duration has been reached (whichever comes first), the panel will clear the Seismic Test Output for that area.
- 4. The panel then waits a fixed time for all seismic detectors in the area to close. Any zone(s) that have not closed are deemed to have failed the test.
- 5. The panel then waits another fixed period before reporting the test result. The result of the test, either manual or automatic, is stored in the system event log.

The seismic output is normally high, and goes low during tests (i.e. when it is active). If this signal is not suitable for a particular sensor then the physical output can be configured to be inverted.

## 23.1.2 Automatically Testing Sensors

Seismic sensors are tested either periodically or after the system is set using the keypad.

### **Periodic Automatic Testing**

Periodic automatic tests are performed on all seismic zones for which automatic tests are enabled.

Automatic tests are randomized within the configured test period and are done independently for each area.

All seismic zones in the same area (for which automatic tests are enabled) are tested simultaneously.

The **Seismic Test Interval** configuration option in the Timers [ $\rightarrow$  74] menu determines the average test period for seismic sensors automatic tests. The default value is 168 hours (7 days) and the allowed values are in the range 12 – 240 hours.

The test time is random within the specified range +/- 15%. For example, if a test is scheduled every 24 hours, a test may be performed between 20.4 and 27.6 hours after the last test.

A seismic test is performed after a reboot if automatic tests are enabled. If the panel was in Full Engineer mode before reboot, then the test is performed only after the panel is out of Full Engineer mode after a reboot.

If a seismic test fails, a Trouble event is reported (SIA code "BT"). There is also a corresponding Restoration event (SIA code "BJ").

### Automatic Test on Setting

The option **Seismic Test on Set** is configurable in the System Options [ $\rightarrow$  66] menu. If enabled, all seismic zones in all areas that are to be set are tested before the usual setting sequence. This applies to keypad operation only.

While the test is being performed, 'SEISMIC AUTOTEST' is displayed on the keypad. If the seismic test succeeds, the setting proceeds as normal.

If all areas or an area group or a single area are selected to be set, and a seismic test fails, then 'SEISMIC FAIL' will be displayed. Pressing **Return** displays a list of the failed zones which can be scrolled through using the up and down arrow keys.

Depending on the **Inhibit** settings for the failed seismic zones and your user profile, the following can occur:

- If all of the seismic zones that failed the test have the **Inhibit** attribute set, and your user profile user is configured with the **Inhibit** right:
- 1. Press Return on any of the failed zones.
  - ⇒ The message "FORCE SET ALL?" is displayed.
- 2. Press **Return** again to inhibit all seismic zones that failed the test. (Alternatively, go back to the previous menu.)
  - ⇒ Setting proceeds as normal.
- If some of the seismic zones that failed the test do not have the **Inhibit** attribute set or your user profile user does not have the **Inhibit** right:
- Press Return.

⇒ The message 'FAIL TO SET' will be displayed and no areas will be set.

There is no automatic seismic test for areas that are auto-set for any reason (for example, areas activated by a calendar or trigger). Likewise there is no automatic seismic test when the system is set with SPC Com, with SPC Pro or the browser. However, there is an automatic seismic test when a virtual keypad is used with SPC Com or SPC Pro.

No event is reported if seismic testing on set fails.

The periodic automatic system test timer restarts after a test is performed after setting.

## 23.1.3 Manually Testing Sensors



Status

To manually test sensors:

- 1. Select the **Zones** tab of the **General Status** dialog box.
- 2. Select a specific seismic zone from the list.
- **3.** Click on the **Seismic Test** button. (Only available when a seismic zone is selected)

🕽 Summary 🔯 Zones	📄 Areas 🔥 System A	vierts 👮 X-BUS 🥅	Keypads 🛛 🔤 Door 🤇	Controllers 🛛 🛃 D	oors 👩 C	ame
Onlin	o Zopo Summary					
<u>Otimi</u>	e zone Summary					
Au	to Status Refresh					
	Zone Description	📄 🦳 Area	Zone Type	🏷 Input	Status	1
2	Vault	4 - Vault	Seismic	Closed	OK	-
3	Window 2	1 - Premises	Alarm	Closed	OK	
4	PIR 1	1 - Premises	Alarm	Closed	OK	
5	PIR 2	1 - Premises	Alarm	Closed	OK	
6	Fire exit	1 - Premises	Fire Exit	Closed	OK	
7	Panic Button	4 - Vault	Holdup	Closed	OK	
8	Seismic	4 - Vault	Seismic	Closed	OK	1
9		1 - Premises	Alarm	Closed	OK	
10		1 - Premises	Alarm	Closed	OK	
11		1 - Premises	Alarm	Closed	OK	1
12		1 - Premises	Alarm	Closed	OK	
13		1 - Premises	Alarm	Closed	OK	
14		1 - Premises	Alarm	Closed	OK	
15		1 - Premises	Alarm	Closed	OK	
16		1 - Premises	Alarm	Closed	OK	
17	Door 1	1 - Premises	Entry/Exit	Closed	OK	
18	Door 2	1 - Premises	Entry/Exit	Closed	OK	
19	Warehouse PIR 1	2 -	Alarm	Disconnect	Isolate	0
33		1 - Premises	Alarm	Closed	OK	
6	Refresh Zones Log	Restore Alarms	Inhibit	Isolate	Soak	
			· · · · · · · · · · · · · · · · · · ·	~ <u> </u>	(s <del>.</del>	-

If the test is successful or if it fails, a message similar to the following is displayed:



The test is recorded in the event log with the following details:

- result (OK or FAIL)
- user ID (for example, 513)
- zone number and name

No event is reported as a result of the test.
# 24 Appendix

IP

#### 24.1 Network cable connections

A PC can be connected directly to the Ethernet interface of the SPC controller or via a LAN connection. The tables below show the 2 possible connection configurations.

- If the SPC is connected to an existing network via a hub, then connect a straight through cable from the hub to the SPC and another from the hub to the PC.
- If the controller is not connected to a network (i.e. a hub or switch is not used), then a crossover cable should be connected between the SPC controller and the PC.

Use the straight through cable for connecting the SPC controller to a PC via a hub.

RJ45 PIN	RJ45 PIN	12345678	12345878
1 (RX +)	1 (TX +)		
2 (RX -)	2 (TX -)		
3 (TX+)	3 (RX+)		
6 (TX-)	6 (RX-)	T-568B	T-568B

Use the crossover cable for connecting the SPC controller directly to a PC.

RJ45 PIN	RJ45 PIN	12345678	12345678
1 (RX +)	3 (TX+)		
2 (RX -)	6 (TX-)		
3 (TX+)	1 (RX +)		
6 (TX-)	2 (RX -)	T-568A	T-568B

# 24.2 Alarm Receiving Station (ARC)

The SPC panel has the facility to communicate information to a remote receiving station when a specific alarm event on the panel has occurred. See page [ $\rightarrow$  253] for an overview of the Alarm Receiving Station. The engineer can configure the system to make calls to an Alarm Receiving Centre (ARC) via the PSTN or GSM network. Ensure that the PSTN or GSM modem is properly installed and functioning correctly) before configuring an ARC on the system.

# i

When replacing or installing modules on the SPC system always ensure that the mains supply and the battery are disconnected. Ensure that all anti-static precautions are adhered to when handling connectors, wires, terminals and PCB's.

When replacing or installing modules on the SPC system always ensure that the mains supply and the battery are disconnected. Ensure that all anti-static precautions are adhered to when handling connectors, wires, terminals and PCB's



9 GSM Modem

## 24.3 Enhanced Datagram Protocol (EDP)

IP

The system has the facility to communicate information to the SPC Com server remotely using Vanderbilt 's own protocol, the EDP (Enhanced Datagram Protocol). By correctly configuring an EDP receiver on the system, it can be programmed to automatically make data calls to the SPC Com server in a remote location whenever events such as alarm activations, tampers, or arming/disarming occur. The engineer can configure the system to make calls to the remote server via the following routes:

PSTN (PSTN mode required)



Network

1	Control/Event reporting	8	Telephone line
2	SPC Com server	9	Router
3	PSTN modem	10	External antenna
4	IP network	11	PSTN network
5	GSM network	12	GSM modem
6	PSTN network	13	Ethernet interface
7	IP network	14	SPC controller

If using the PSTN network, ensure the PSTN modem is properly installed and functioning correctly and that a functioning PSTN line is connected to the A, B terminals on the PSTN modem.

If using the GSM network, ensure the GSM module is properly installed and functioning correctly (see page). An IP connection can be made across the internet to a server with a fixed public IP address.

If an IP connection is required, ensure the Ethernet interface is correctly configured (see page) and that internet access is enabled at the router.

When the SPC system has been setup to connect to the SPC Com server, an EDP receiver must be configured on the SPC.

# 24.4 Establishing a remote connection to the panel via GSM



1	PC with SPC Pro
2	PSTN / GSM modem
3	PSTN / GSM network
4	External antenna
5	SPC Controller
6	GSM modem

The SPC controller can be accessed via a remote connection over the GSM network. A GSM module (with SIM card) must be installed on the controller as shown above to provide remote access to the SPC. On the remote side of the connection the user must have a PSTN or GSM modem installed on a PC with SPC Pro installed. If a PSTN modem is installed then it must be connected to a working PSTN line.

#### Configure the modem on the SPC controller:

Install a GSM modem on the SPC controller and check that it is functioning correctly. (Please consult the SPC Technical guide for precise details). Enter Full Engineer programming from a keypad connected to the SPC and configure the modem (Primary or Backup) to answer an incoming call.

- Enable modem Set to Modem Enabled.
- Type Displays the type of modem (GSM).
- Country code Select the relevant country code (Ireland, UK, Spain, etc...).
- Answer mode Select numbered rings. This tells the modem to wait for a number of rings before answering the incoming call.
- Modem rings Select the number of rings to allow before answering the call (8 rings max).

#### On Windows XP

1. Open the New Connection Wizard by clicking on **Control panel > Network Connections > Create New Connection** (in the Network Tasks window).

New Connection Wizard	
J.	Welcome to the New Connection Wizard
<b>₩</b>	This wizard helps you:
	Connect to the Internet.
	<ul> <li>Connect to a private network, such as your workplace network.</li> </ul>
	To continue, click Next.
	< Back Next > Cancel

- 2. In the Network Connection Type window, select Connect to the Internet.
- 3. In the Getting ready window choose Setup my connection manually.
- 4. In the Internet connection window choose Connect using Dialup modem.
- **5.** In the connection name window enter the connection name e.g. "SPC Remote connection".
- 6. In the Phone number to dial window, enter the phone number of the PSTN line connected to the SPC PSTN modem.
- 7. In the connection availability window choose whether you want this connection to be available to all users.

ew Connection Wizard			
Internet Account Info You will need an acc	Internet Account Information You will need an account name and password to sign in to your Internet account.		
Type an ISP accoun safe place. (If you ha	t name and password, then write down this information and store it in a ve forgotten an existing account name or password, contact your ISP.)		
User name:	SPC		
Password:	•••••		
Confirm password:	••••••		
Make this the de	fault Internet connection		
	< Back Next > Cancel		

- 8. In the internet account information window enter the following details:
  - Username : SPC
  - Password: password
  - Confirm Password: password
  - ⇒ The window Completing the new connection wizard will be displayed.
- 9. Click the button Finish to save the Dial-up connection to your PC.

To activate this dial-up connection:

- Click the icon located in the menu Control panel > Network Connections.
  - ⇒ The PC will make a data call to the PSTN line connected to the SPC PSTN module.

Setwork Connections		_ 🗆 🗵
File Edit View Favorites Tools	Advanced Help	A.
🚱 Back 🝷 🕤 👻 🦻 Search	🏷 Folders 🛛 🛄 🗸	
Address 💊 Network Connections		💌 🄁 Go
	Name	Туре
Network Tasks 🛛 🕆	Dial-up	
🛐 Create a new connection	▶ SPC Remote connection	Dial-up
Change Windows Firewall settings	LAN or High Encod Internet	
securitys	LAN OF High-speed Internet	
See Also	LAN	LAN or High-Speed Inter
	SBI_LAN	LAN or High-Speed Inter
Vetwork Troubleshooter		
Other Places 🏾 🕆		
Control Panel		
My Network Places		
My Computer		
Details 🏠		
System Folder		
		Þ

- ⇒ The SPC PSTN module will answer the incoming data call after the designated number of rings and establish an IP link with the remote computer.
- An IP address will be automatically assigned to the remote PC by the SPC system.

To obtain this IP address:

- **1.** Right click the icon Dial-up.
- 2. Click the tab Details.
- ⇒ The IP address will be displayed as the Server IP address. This is the IP address to specify in the SPC Pro connection type window. See page [→ 26].

[**i** 

It is recommended that the BAUD rate of the modem on the PC is set at 9600 bps.

#### 24.5 Zone types

The zone types on the SPC system are programmable from both the browser and keypad. The table below gives a brief description of each zone type available on the SPC system. Each zone type activates its own unique output type (an internal flag or indicator) that can then be logged or assigned to a physical output for activation of a specific device if required.

Zone Type	Processing Category	Description
ALARM	Intruder	This zone type is the default zone type setting and is also the most frequently used zone type for standard installations.
		An Open, Disconnected, or Tamper activation in any mode (except unset) causes an immediate full alarm. In the Unset mode, Tamper conditions are logged, causing the alert message ZONE TAMPER and triggering a local alarm. In Partset A, Partset B and Full Set modes, all activity is logged.
ENTRY/EXIT	Intruder	This zone type should be assigned to all zones on an entry/exit route (i.e. a front door or other access area to the building or premises). This zone type provides an entry and exit time delay.
		The entry timer controls this delay. When the system is being full set, this zone type provides an exit delay allowing time to vacate an area. The exit timer controls this delay. In Part set A mode, this zone type is inactive.
EXIT TERMINATOR	Intruder	This zone type is used in conjunction with a push button on an exit route and acts as an exit terminator – that is, it provides an infinite exit delay period and will not allow the system to set until the button is pressed.
FIRE	Hold-up	Fire zones are 24-hour zones for fire monitoring and their response is independent of panel operating mode. When any fire zone opens, a full alarm is generated and the FIRE output type is activated. If the 'Report only' attribute is set then activation will only be reported to the central station and a Full Alarm will not be generated.
FIRE EXIT	Hold-up	This is a special type of 24-hour zone for use with fire exit doors that should never be opened. In Unset mode, an activation of this zone will trip the Fire-X output, causing alert messages.
LINE	Fault	Telemetry line monitoring input. This is usually used in conjunction with a telephone line health output from an external digital dialer or direct line communication system. When activated, it produces a local alarm in Unset mode and a full alarm in all other modes.
PANIC ALARM	Hold-up	This zone type is active on a 24-hour basis and activated via a panic button. When a Panic zone is activated it will report a Panic event, independent of panel arming mode. All activation's are logged and reported if log attribute is active. If the SILENT attribute is set then the alarm will be silent (Activation is reported to ARC), otherwise it will generate a Full alarm.
HOLD-UP ALARM	Hold-up	This zone type is active on a 24-hour basis and activated via a button. When a Hold-up zone is activated it will report a Hold-up event, independent of panel arming mode. The SILENT attribute is set by default therefore the alarm will be silent. If unset, it will generate a full alarm. All activations are logged and reported if log attribute is active.
TAMPER	Tamper	When open in the Unset mode, a Local Alarm is generated but no external bell will activate. If the system is Full Set, a Full alarm is generated. If the Security Grade of the system is set to Grade 3 then an engineer code is required to restore the alarm.
TECHNICAL	Intruder	<ul> <li>The tech zone controls a dedicated tech zone output. When a tech zone changes state, the tech zone output will follow. That is:</li> <li>When the tech zone opens, tech zone o/p triggers on</li> <li>When the tech zone closes, tech zone o/p goes off</li> <li>If more than one tech zone has been assigned, the tech zone output will remain on until all tech zones are closed.</li> </ul>

#### Appendix Zone types

MEDICAL	Hold-up	This zone type is used in conjunction with radio or hardwired medical switches.
		Activation in any mode will:
		<ul> <li>Trigger the medical digital communicator output (unless Local attribute is set)</li> </ul>
		• Cause the panel buzzer to sound (unless Silent attribute is set)
		Display the message Medic Alarm
KEYARM	Intruder	This zone type is normally used in conjunction with a key lock mechanism. A Keyarm zone will SET the System / Area / Common Areas when it is OPENED and will UNSET the System/Area/Common Areas when it is CLOSED.
		<ul> <li>If the zone with the keyarm zone type is assigned in an non area system then the keyarm operation will SET/UNSET the system.</li> </ul>
		<ul> <li>If the zone with the keyarm zone type is assigned to an area then the keyarm operation will SET/UNSET the area.</li> </ul>
		<ul> <li>If the zone with the keyarm zone type is assigned to a common area then the keyarm operation will SET/UNSET all the areas in the common area.</li> </ul>
		<ul> <li>If the 'Open only' attribute is set then the armed status of the System / Area / Common Areas will toggle on each opening of the key lock. ( i.e. Open once to SET the system, Close and Open again to UNSET)</li> </ul>
		<ul> <li>If the 'Fullset Enable' attribute is set then zone activation will only Fullset the system.</li> </ul>
		<ul> <li>If the 'Unset Enable' attribute is set then zone activation will only unset the system.</li> </ul>
		Keyarming will force set the system/area and auto-inhibit any open zones or fault conditions.
		Note: Your system will not comply with EN standards if you enable this zone type to set the system without first entering a valid PIN on an external device.
SHUNT	Intruder	This zone type is only available in Commercial Mode of operation. Though the Shunt Alarm Zone type can be set in Domestic Mode of operation, it has no effect.
		This zone type when opened inhibits all zones that have the shunt attribute set. This operation applies for both SET and UNSET modes. As soon as the shunt zone is closed, the zones with the shunt attribute set will become un-inhibited again.
X-SHUNT	Intruder	This zone type is only available in Commercial Mode of operation.
		A zone programmed with the x-shunt zone type inhibits the next consecutive zone on the system whenever it is opened. This operation applies for both SET and UNSET modes. As soon as the x-shunt zone type is closed the next zone becomes de-inhibited again.
DETECTOR FAULT	Fault	Detector Fault zones are 24 hour zones that are applicable to a detector device, for example, a PIR. The fault zone type triggers the Fault output.
		When the system is armed, a fault output is triggered. Both the keypad LED and the buzzer are activated when Unarmed.
LOCK	Intruder	Only available in Commercial mode.
SUPERVISION		Used to monitor a door lock. System can be programmed not to set unless door is locked.
SEISMIC	Intruder	Only available if the panel is in Financial mode of operation. Vibration sensors, also called seismic sensors, are used to detect intrusion attempts by mechanical means, such as drilling or making holes through walls or safes.
ALL OKAY	Intruder	This zone type enables a special entry procedure to be implemented using a user code and 'All Okay' input. A silent alarm is generated if an All Okay button is not pressed within a configurable time after a user code is entered. (See Areas [ $\rightarrow$ 122] for details of 'All Okay' configuration)



		All Okay uses two outputs, Entry Status (Green LED) and Warning Status (Red LED), to indicate entry status using LEDs on the keypad.
UNUSED	Intruder	Allows a zone to be disabled without the need for each zone to have EOL resistors fitted. Any activation on the zone will be ignored.
HOLDUP FAULT	Fault	Holdup Fault zones are 24 hour zones that are applicable to a holdup signaling device, for example, a WPA. The fault zone type triggers the Fault output.
		When the system is armed, a fault output is triggered. Both the keypad LED and the buzzer are activated when Unarmed.
		This zone type will report the SIA messages, HT (Holdup Trouble) and HJ (Holdup Trouble Restore) and for CID, a sensor trouble event (380) is produced.
WARNING FAULT	Fault	Warning Fault zones are 24 hour zones that are applicable to a warning signaling device, for example, an internal or external bell. The fault zone type triggers the Fault output.
		When the system is armed, a fault output is triggered. Both the keypad LED and the buzzer are activated when Unarmed.
		This zone type will report the SIA messages, YA (Bell Fault) and YH (Bell Restore) and for CID, a sensor trouble event (380) is produced.
		<b>Note:</b> On a grade 2 system, a cable fault will cause a fault and not an alarm.
SETTING AUTHORISATION.	Intruder	Applicable to Blockschloss operation. This zone type is used to send a setting authorisation signal to the panel that the Blockschloss is ready to set. The Set option must be selected for the 'Setting Authorisation' attribute for the area
LOCK ELEMENT	Intruder	If using a Lock Element (bolt) with a Blockschloss, this zone type signals the position of the lock element to the panel (locked or unlocked). This bolt locks the door in the set state. This signal is checked during setting process. If the 'locked' information is not received, the setting will fail.
GLASSBREAK	Intruder	Zone is connected to an RI S 10 D-RS-LED glassbreak interface in combination with GB2001 glassbreak detectors.
		<ul> <li>This zone type is available on controllers and expanders. It is not available as wireless or as a door zone type if the DC2 is configured as a door.</li> </ul>
		• The zone type reports in the same way as an alarm zone over SIA and contact ID.
		<ul> <li>The rights to restore/inhibit/isolate glassbreak are the same as the alarm zone type</li> </ul>
		<ul> <li>Power up condition — As the power is supplied by the panel any state changes within the first 10 seconds are ignored in order to allow the device to settle.</li> </ul>
		<ul> <li>Reset condition — Signals are ignored from the glassbreak interface for 3 seconds after the device has been reset.</li> </ul>
		• Exiting engineer mode — The glassbreak output may be toggled when exiting engineer mode, in which case the signals from this sensor will be temporarily ignored for 3 seconds.

### 24.6 Zone attributes

The zone attributes on the SPC system determine the manner in which the programmed zone types function.

Zone attribute	Description
Access	When the 'Access' attribute on a zone is set, then on opening that zone, an alarm will not be generated if either the entry or exit timer is running. When the system is full set the Access attribute is not active and opening the zone will initiate a full alarm. The 'Access' attribute is most often used for PIR

	sensors located close to an entry/exit zone. It allows the user free movement within the access area while the entry or exit timer is counting down.
	The 'Access' attribute is only valid for Alarm zone types.
	All connected devices (Bells - Internal & External, Buzzers, Strobe) are activated.
	<b>NOTE</b> : An alarm zone with Access attribute can automatically be changed to an entry/exit zone in Partset mode if the Partset Access Option is set.
Exclude A	If the 'Exclude A' attribute on a zone is set, then an alarm will not be generated by that zone opening while the panel is in the Partset A mode. The 'Exclude A' attribute is valid for Alarm zone type and Entry/Exit zones only.
	A FULL alarm is generated if a zone with the EXCLUDE A attribute is opened while the system is in FULLSET or PARTSET B Mode (Bells - Internal & External, Strobe).
Exclude B	When the 'Exclude B' attribute is set, the zone opening will not generate an alarm while the panel is in the Partset B mode. The 'Exclude B' attribute is valid for Alarm zone type and E/Exit zones only.
	A FULL alarm is generated if a zone with the EXCLUDE B attribute is opened while the system is in FULLSET or PARTSET A Mode (Bells - Internal & External, Strobe).
24 Hour	If a Zone is assigned the '24 Hour' attribute, then it is active at all times and will cause a full alarm if opened in any mode. This attribute can only be assigned to the ALARM zone type. Generates a FULL Alarm in UNSET, SET and PARTSET modes.
	<b>NOTE</b> : The 24 Hour attribute overrides the settings of any of the other attributes for a particular alarm zone.
Local	When the 'Local' attribute is set, an alarm generated by a zone opening will not result in the external reporting of the event. The 'Local' attribute is valid for Alarm, E/Exit, Fire, Fire Exit and Medic zone types.
Unset Local	When this attribute is set, an alarm generated by the zone opening when the area is fullset or partset will be reported in the usual way. However, if the area is unset there will be only a local alarm i.e keypad buzzer, LED flash and zone display. This attribute is only applicable to Alarm, Fire and Seismic zones.
Double Knock	Use this attribute to deal with troublesome detectors. (i.e. some detectors may generate activation signals spuriously, thereby inadvertently trigger alarms on the system).
	If the same double knock zone activates twice during the double knock period, then an alarm is generated. Double knock time is set in seconds (see page [ $\rightarrow$ 74]). Two open actions within that time period will generate an alarm. All open double knock zones are logged when the system is armed.
Chime	When the 'Chime' attribute is set for a zone, any opening of the zone during the Unset mode will cause the internal buzzers to activate for a short period (2 seconds approx.).
	The Chime attribute is valid for Alarm, Entry/Exit, and Tech. zones types.
Inhibit	When the 'Inhibit' attribute is set, a user may inhibit this zone. The inhibit operation will disable that fault or zone for one setting period only.
Normal Open	When the 'Normal Open' attribute is set, the system expects that a connected detector/sensor is a Normally Open device. (i.e. a sensor is deemed to be activated whenever the contacts are closed on the device ).
Silent	If the 'Silent' attribute is set then there will be no audio or visual indications of the Alarm. The alarm activation will be sent to the Receiver station. If the system is unset then a warning message is shown on the display.
Log	If this attribute is set then all zone state changes are logged.
Exit Open	If set then zone will be indicated if open during setting.
Frequent	This attribute only applies to Remote Maintenance*. If this attribute is set for a zone, the zone must open for remote service purposes within the defined frequent time period.
End of Line	The End Of Line (EOL) attribute provides a number of input zone wiring



	configurations on the system.
Analysed	The Analysed Attribute must be set for a zone if that zone is wired with an inertia sensor. The Pulse count and Gross attack values should be programmed for each inertia sensor on the system in accordance with the results of a simple calibration of the device.
Pulse Count	Pulse count trigger level for analysed inertia sensors.
Gross Attack	Gross attack trigger level for analysed inertia sensors
Final Exit	The Final Exit attribute can only be assigned to an Entry/Exit Zone type. Use this attribute to override the standard process of counting down the exit timer whenever the system is full set. When all other entry/exit routes in the premises are closed, fullset the system and close the final exit/entry zone. As soon as the door is closed the Final Exit time will count down to setting the system.
Shunt	A zone with the shunt attribute set will be inhibited whenever a shunt type zone is opened. This provides a mechanism to group the inhibition of zones with the opening of the shunt zone type.
Report Only	This attribute only applies to the FIRE zone type. If this attribute is set, then activation of the fire zone will only report the activation to the central station. No alarms will be generated on site.
Open Only	This attribute only applies to the KEYARM zone type. If set then the setting state of the building will toggle on openings only.
Fullset Enable	This attribute only applies to the KEYARM zone type. If this attribute is set then zone activation will Fullset the system/area. Apply this attribute if it is intended that the user should only have the ability to FULLSET the system from a keyarm zone.
Unset Enable	This attribute only applies to the KEYARM zone type. If set then zone activation will Unset the system/area. Apply this attribute if it is intended that the user should only have the ability to UNSET the system from a keyarm zone.
Tech Zone Report	Allows a zone when opened, regardless of the mode to send an alarm to the ARC in FF, CID, SIA and SIA extended. When areas are selected, the alarm will only be sent to the ARC to which the area has been assigned to. This would be a "UA" Unknown Alarm followed by the zone number and text if SIA extended is selected. It will also send an SMS to the end user and engineer if select to do so when the unconfirmed alarm filter is selected.
Tech Zone Display	Allows an opening zone to be displayed on the system keypad. The alert led should also activate. When areas are selected it will only be displayed on the keypad which is assigned to the area in which the zone has been selected. The alert may only be displayed on the keypad when the area is in the unset mode and not in the Part A, Part B and set mode.
Tech Zone Audible	Allows an activated zone to operate the buzzer. This will operate the same as the Tech Zone Display in the different setting modes and on systems with areas.
Tech Zone Delay	Allows the zone to have a programmable delay. The delay is variable from 0 to 9999 seconds and will apply to all Tech Zones. The operation is the same as the Mains Delay timer, if the zone is closed within the delay time, then no alarm is sent to the ARC, no SMS is sent to the user and the Technical Output will not trip. <b>NOTE</b> : The Technical Output will not trip until the delay timer has expired.
Armed report only	Openings are reported only in armed mode.
Fire pre-alarm	If enabled and a fire alarm occurs, a Fire Pre-alarm timer is started and internal bells and buzzers are activated. (See Timers [ $\rightarrow$ 74].) If the alarm is not cancelled within the timer duration, a fire alarm is confirmed, internal and external bells are triggered and an event is sent to ARC.
Fire Recognition	If enabled, a Fire Recognition timer is activated which adds extra time to the Fire Pre-alarm timer duration until a file alarm is reported for the zone. See Timers [ $\rightarrow$ 74].
Seismic Test/Automatic Sensor	A Seismic zone type may be tested manually or automatically. This attribute

Test	allows automatic testing to be enabled. Refer to the section on timers $[\rightarrow 74]$ for details of how to configure the timer that determines how often the panel tests any seismic zones that have this attribute set. The default value for the timer is 7 days.
Timed	The 'Timed' attribute is used for Key Arm zones to delay the setting of an area. The delay follows the exit timer for the area to which the key arm is associated.
Verification	Select the configured verification zone to assign to this zone to trigger audio/video verification.
Force Set	If enabled, the keyarm device can set the system, automatically inhibiting all open zones.

# 24.7 Applicable attributes to zone types

The following table shows which attributes are applicable to each zone type:

,			۲		۲	8		8				8		۲	8	8	8		8					
Zone Type	-							3. 3		s			8 3		a	브	3			t	±	-		
Attribute	Alarm	Entry/Exit	Exit Term	Fire	Fire Exit	Line	Panic	Holdup	Tamper	Tech	Medical	Keyarm	Unused	Shunt	X-Shunt	Detector Fau	Lock Supervision	Seismic **	All Okay	Hold-up Faul	Warning Fau	Setting Authorisatio	Lock Elemen	Glass Break
Access	۷																							۷
Exclude A	٧	۷								- 2 - B					85 - 1					85			٧	٧
Exclude B	٧	۷			-			-								1				<u> </u>			٧	٧
24 Hour	۷				e 9					8 Ø					92 - 3			۷		9				٧
Local	٧	۷		٧	۷						۷					٧				٧	۷		٧	۷
Unset Local	٧			۷		, à		i i							i -			۷		-				٧
Double Knock	۷		-		s	5 8		0 0					-		3	33				3	-			۷
Chime	٧	۷								٧												٧		٧
Inhibit	٧	۷	٧	۷	۷	٧	۷	۷	۷	۷	۷	۷		۷	۷	۷	۷	۷	۷	٧	۷		۷	٧
Normal Open	٧	۷	۷	٧	۷	٧	٧	٧	۷	٧	۷	۷		٧	۷	٧	٧		۷	۷	٧	۷	٧	٧
Silent	٧						۷	٧													-			٧
Log	۷	۷	۷	۷	۷	٧	۷	۷	۷	۷	۷	۷		۷	٧	۷	۷	۷	۷	۷	۷	۷	۷	٧
Shunt	٧	۷			۷																			۷
Frequent *	٧	۷	٧		-	- à		i i		۷		٧	-	۷	٧	-		-		<u> </u>	-			٧
Analyzed	۷	۷	-		۷	58									3	\$				3				
Pulse Count	۷	۷			۷																			
Gross attack	۷	۷			۷			2 3																
Calendar	۷	۷	٧	۷	۷	۷	۷	۷	۷	۷	۷	۷		۷	٧	۷	۷	۷	۷	۷	۷	۷	۷	۷
Verification	۷	۷		۷	٧		۷	٧		٧	٧							۷						٧
Exit Open		۷																						
Seismic Test																		۷		Ĩ				
Timed												۷			1									
Report Only				۷																				
Open Only												۷										۷		
Final Exit	- C - C	۷			(* *)								2 5							-			۷	
Fullset enable			T									۷			3									
Unset enable												۷												
Shunt	۷	۷			۷																			۷
Report (Tech)										۷														
Display(Tech)										۷														
Audible (Tech)										۷														
Delay (Tech)										۷														
Report When Set										۷														
Fire Pre-alarm				۷	۷																			
Fire Recognition				۷	۷																			
Force set						Ĩ						۷												

Only available in Commercial Mode.

\* Only in conjunction with Remote Maintenance.

\*\* Only available in Financial Mode

### 24.8 FlexC Glossary

Acronym EN50136-1 Description FlexC Example
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AE	Annunciation Equipment Equipment located at an ARC which secures and displays the alarm status, or the changed alarm status of ASs in response to the receipt of incoming alarms before sending a confirmation. The AE is not part of the ATS.	SPC Com XT Client
ARC	Alarm Receiving Centre Continuously manned centre to which information concerning the status of one or more AS is reported.	SPC Com XT would be installed in an ARC.
AS	Alarm System Electrical installation, which responds to the manual or automatic detection of the presence of a hazard. The AS is not part of the ATS.	SPC Panel
ATE	Alarm Transmission Equipment Collective term to describe SPT, MCT (Monitoring Centre Transceiver) and RCT.	-
ATP	Alarm Transmission Path Route an alarm message travels between an individual AS and its associated AE. The ATP starts at the interface between AS and SPT and ends at the interface between RCT and AE. For notification and surveillance purposes the reverse direction may also be used.	A defined path between the SPC panel and SPC Com XT. e.g. A system with ethernet as the primary path and GPRS as a backup path would be two separate ATPs of an ATS.
ATS	Alarm Transmission System ATE and networks used to transfer information concerned with the state of one or more ASs at a supervised premises to one or more AEs of one or more ARCs. An ATS may consist of more than one ATP.	A system combining one or multiple paths between SPC panel and SPC Com XT.
RCT	Receiving Centre Transceiver ATE at the ARC including the interface to one or more AE(s) and the interface to one or more transmission networks and being part of one or more ATPs. In some systems this transceiver may be able to indicate changes of the status of an AS and to store log-files. This may be needed to increase the ATS availability in case of AE failure.	SPC Com XT Server
SPT	Supervised Premises Transceiver ATE at the supervised premises including the interface to the AS and the interface to one or more transmission networks and being part of one or more ATPs.	Integrated onto SPC Panel using Ethernet, GPRS, PPP over PSTN.

FlexC also uses the following acronyms.

Acronym	Description
ASP	Analogue Security Protocols
	The analogue security protocols traditionally used for alarm transmission over the telephone network e.g. SIA, Contact ID.

#### 24.9 FlexC Commands

The following table lists the commands that you can enable for a command profile. The command profile you assign to an ATS defines how you can control a panel from SPC Com XT.

Command Filter	Commands					
System Commands	Get Panel Summary					
	Set the System Time and Date					
	Grant Engineer Access					
	Grant Manufacturing Access					
Intruder Commands	Get the Area Status					
	Get the Change Mode Status of an Area					
	Change the mode (Set/Unset) of an Area					
	Get Status of Panel Alerts					
	Perform actions on Alerts					
	Silence Bells					
	Get Zone Status					
	Control a Zone					
	Get the System Log					
	Get the Log for a Zone					
	Get the Wireless Log					
Output Commands	Get Mapping Gate Status					
	Control Mapping Gates					
User Commands	Verify a User on the Panel					
	Get a User Configuration					
	Add a User					
	Edit a User					
	Delete a User					
	Get a User Profile Configuration					
	Add a User Profile					
	Edit a User Profile					
	Delete a User Profile					
	Change a User's own PIN					
Calendar Commands	Read Calendar Configuration					
	Add a Calendar					
	Edit a Calendar					
	Edit a Calendar Week					
	Delete a Calendar					
	Add a Calendar Exception Day					
	Edit a Calendar Exception Day					

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	Delete a Calendar Exception Day					
Communication Commands	Get the status of the Ethernet					
	Get the status of a modem					
	Get the log for a modem					
	Get the log for a ARC receiver					
FlexC Commands	Get the status of a FlexC ATS					
	Get the Network Log for a FlexC ATS					
	Get the Event Log for a FlexC ATS					
	Get the log for a FlexC ATP					
	Get the Network log for a FlexC ATP					
	Export a FlexC ATS configuration file					
	Import a FlexC ATS configuration file					
	Delete a FlexC ATS					
	Delete a FlexC ATP					
	Delete a FlexC Event Profile					
	Delete a FlexC Command Profile					
	Request a testcall for a FlexC ATP					
Access Control Commands	Get the Configuration for a Door					
	Read the Status for a Door					
	Control a Door					
	Get the Access Log					
Verification Commands	Read a Camera Image					
	Get the Status of a Verification Zone					
	Get the data for a Verification Zone					
	Send data to a Verification Zone					
Virtual Keypad Commands	Control keypad					
File Commands	Upgrade the Panel Firmware					
	Upgrade Peripheral Firmware					
	Upload a File					
	Download a File					
	Saves the Panel Configuration					
	Reset the Panel					
Legacy Commands	Get Panel Info					
	Get Panel Status					
	Get Headers of Configuration Files					
	Get Language Configuration					
	Get Intruder Configuration					
	Get Status of X-BUS Devices					
	Get the Area Configuration					

# 24.10 ATS Category Timings

This table describes the EN50136-1 ATS Category Timings laid down in the standard and how the FlexC implementation meets these standards.

	EN50136-1 ATS Category Timing Requirements						FlexC Implementation of ATS Category Timing Requirements					
ATS	Default	Event	Primar	Backup	Backup	Event	Primar	Backup	Backup			

Catego ry	Interfac es	Timeo ut	y Polling Timeo ut	ATP Polling Timeout (Primary OK)	ATP Polling Timeout (Primary Down)	Timeo ut	y Polling Timeo ut	ATP Polling Timeout (Primary OK)	ATP Polling Timeout (Primary Down)
SP1	Cat 1 [Ethern et]	8 min	32 days	-	-	2 min	30 days	-	-
SP2	Cat 2 [Ethern et]	2 min	25 hr	-	-	2 min	24 hr	-	-
SP3	Cat 3 [Ethern et]	60 s	30 min	-	-	60 s	30 min	-	-
SP4	Cat 4 [Ethern et]	60 s	3 min	-	-	60 s	3 min	-	-
SP5	Cat 5 [Ethern et]	30 s	90 s	-	-	30 s	90 s	-	-
SP6	Cat 6 [Ethern et]	30 s	20 s	-	-	30 s	20 s	-	-
DP1	Cat 2 [Ethern et] Cat 2 [Modem ]	2 min	25 hr	50 hr	25 hr	2 min	24 hr	24 hr 30 min	24 hr 10 min
DP2	Cat 3 [Ethern et] Cat 3 [Modem ]	60 s	30 min	25 hr	30 min	60 s	30 min	24 hr 30 min	30 min
DP3	Cat 4 [Ethern et] Cat 4 [Modem ]	60 s	3 min	25 hr	3 min	60 s	3 min	24 hr 30 min	3 min
DP4	Cat 5 [Ethern et] Cat 5 [Modem ]	30 s	90 s	5 hr	90 s	30 s	90 s	4 hr 10 min	90 s

## 24.11 ATP Category Timings

The following table shows the settings applied for event timeouts, polling intervals (active and non-active) and polling timeouts (active and non-active) for each ATP category. For the purpose of ethernet, polling interval and retry interval are identical. To reduce costs related to GPRS calls, the interval and retry interval for GPRS paths differ, for example, Cat 3 [Modem] polls once every 25 minutes and thereafter it polls every 60s for 5 minutes until it times out after 30 minutes. For a visual overview of the configured polling interval, go to **Status - FlexC - Network Log**.

If an ATP is up and active and then goes down, it will remain on active polling rates for two more polling cycles before converting to the **ATP Down** polling intervals.

Ethernet A Categories	I <i>TP</i> s	Polling	when AT	P Active	Polling	when AT active	Polling when ATP Down		
ATP Category	Event Timeou t	Polling Interval	Retry Interva I	Polling Timeout	Polling Interval	Retry Interva I	Polling Timeout	Pollin g Interv al	Timeo ut
Cat 6 [Ethernet]	30 s	8 s	30 s	20s	8 s	30 s	20 s	30 s	30 s
Cat 5 [Ethernet]	30 s	10s	30 s	90s	10s	30 s	90 s	30 s	30 s
Cat 4 [Ethernet]	60 s	30 s	30 s	3 min	30 s	30 s	3 min	30 s	30 s
Cat 3 [Ethernet]	60 s	60 s	60 s	30 min	60 s	60 s	30 min	60 s	30 s
Cat 2A [Ethernet]	2 min	2 min	2 min	4 hr	2 min	2 min	4 hr	2 min	30 s
Cat 2 [Ethernet]	2 min	2 min	2 min	24 hr	2 min	2 min	24 hr	2 min	30 s
Cat 1 [Ethernet]	2 min	2 min	2 min	30 days	2 min	2 min	30 days	2 min	30 s
Modem A	TP Catego	ories							
Cat 5 [Modem]	30 s	10 s	30 s	90 s	4 hr	2 min	4hr 10 min	10 min	90 s
Cat 4A [Modem]	60 s	60 s	60 s	3 min	4 hr	2 min	4hr 10min	30 min	90 s
Cat 4 [Modem]	60 s	60 s	60 s	3 min	24 hr	2 min	24 hr 30 min	1 hr	90 s
Cat 3 [Modem]	60 s	25 min	60 s	30 min	24 hr	2 min	24 hr 30 min	4 hr	90 s
Cat 2A [Modem]	2 min	4 hr	2 min	4hr 10min	24 hr	2 min	24 hr 30 min	4 hr	90 s
Cat 2 [Modem]	2 min	24 hr	2 min	24hr 10min	24 hr	2 min	24 hr 30 min	24 hr	90 s
Cat 1 [Modem]	2 min	24 hr	10 min	25 hr	30 davs	10 min	30 days 1 hr	7 davs	90 s

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