

CE

# PREVIDIA

CONTROL PANEL FOR FIRE DETECTION AND ALARM,  
FIRE EXTINCTION AND VOICE-EVACUATION SYSTEMS



GUIDE FOR INTEGRATION  
WITH SUPERVISION SYSTEMS

**inim**<sup>®</sup>

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## General information

### 1.1 Manufacturer's details

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The personnel authorized by the manufacturer to repair or replace the parts of this system, hold authorization to work only on devices marketed under the INIM Electronics brand.

### 1.2 About this manual

**Manual code:** DCMBINEOPREVIDIA

**Revision:** 1.40

This manual provides the installer with the guidelines relating to the integration of Previdia control panels with external supervision systems.

#### 1.2.1 Graphic conventions

Following are the graphic conventions used in this manual.

Conventions	Example	Description
Text in italics	Refer to <i>paragraph 1.2.1</i> <i>Graphic conventions</i>	Directs you to the title of a chapter, section, paragraph, table or figure in this manual or other published reference.
[Uppercase letter] or [number]	[A] or [1]	Reference relating to a part of the system or video object.

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**Note:** *The notes contain important information relating to the text.*

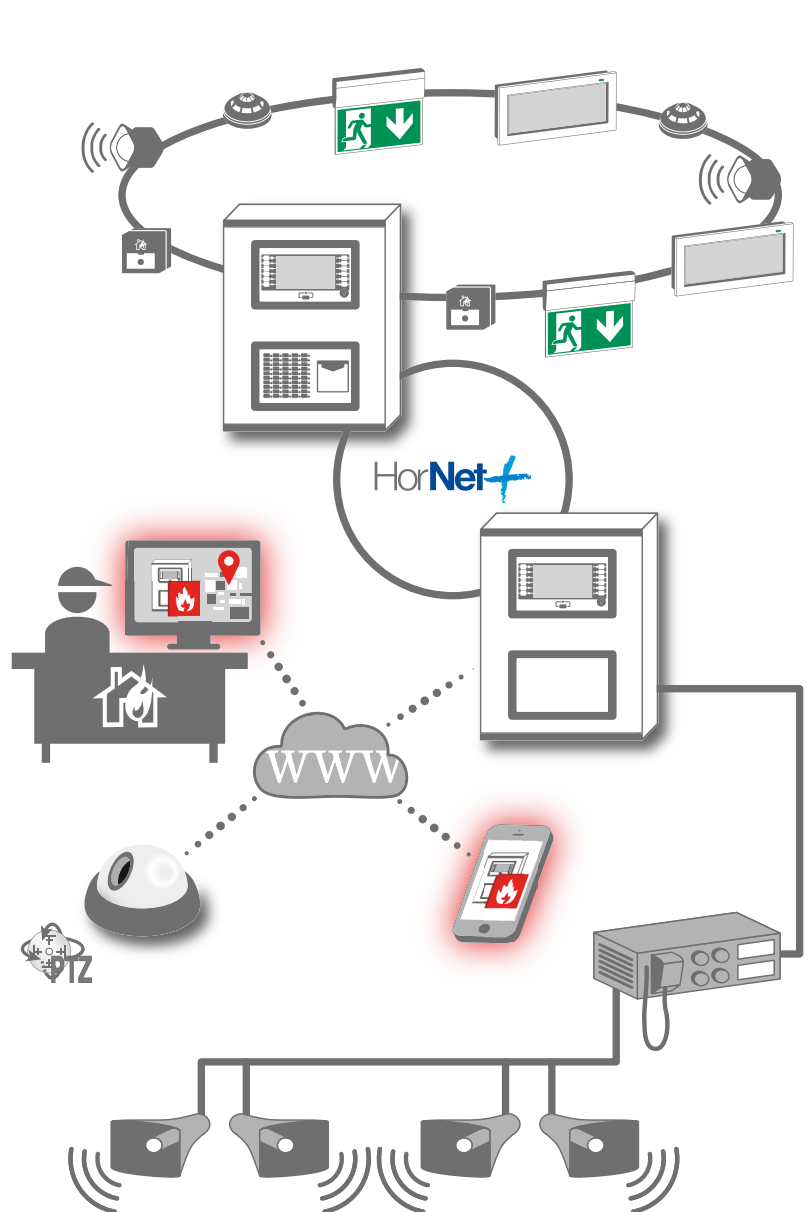
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## Chapter 2

### Connectible external systems

Previdia series control panels have been especially developed and designed for connection to various systems which are external to the fire detection system itself, such as:

- **BMS (Building Management System):** monitoring systems, usually comprising software installed on a PC platform, capable of monitoring and managing the system through graphic maps, function keys, etc. These systems constitute an easy-to-use interface for end users.
- **Pager:** systems comprising a PABX capable of receiving text messages from other systems (in our case from fire-detection control panels) and forwarding them to remote devices such as pagers or displays of cordless telephones.
- **Video surveillance with IP cameras with Onvif protocol:** cameras installed in the same Ethernet network can be interconnected with the fire-detection control panel in order to provide images captured in ambients where dangerous situations have been detected (in the case of PTZ by positioning the camera at the correct angle). The images, visible on the control-panel console or from remote locations (via e-mail or web browser), provide a valid verification tool that allows the user to establish the seriousness or irrelevance of fire signalling.
- **Voice Evac:** voice evacuation systems comprise one or more control units (controller, amplifiers, power supplies) and a series of sound diffusion lines. These systems have the task of warning occupants of the necessity to evacuate the building and are more effective than sounders, as they are capable of providing detailed information regarding the fire. The interconnection of these systems and the fire detection system allows the activation of accurate voice messages relating specifically to the various zones in the building.



## Chapter 3

### Building Management System

The connection of Previdia control panels with supervision systems (BMS, Building Management Systems) allows users to supervise and interact with their systems.

For this purpose Previdia control panels manage some of the most widely used communication protocols available on the market:

- **Modbus RTU:** protocol based on RS485 standard (for Previdia Max control panels only, available on the RS485-BMS port of the FPMCPU module)
- **Modbus over TCP/IP:** Modbus protocol based on TCP/IP standard, implemented on the Ethernet connection of the control panel
- **BACnet:** protocol based on TCP/IP (for Previdia Max and Ultra control panels transmitted over the Ethernet port of the IFMLAN module and for Previdia Compact control panels, over the Ethernet port of the PREVIDIA-C-COM-LAN module).  
This protocol is subject to licencing.
- **SmartLook interface:** protocol property of Inim Electronics used by SmartLook software (implemented on the Ethernet port, RS232 and USB located on the FPMCPU module for Previdia Max control panels and on the Ethernet and USB ports located on the Previdia Compact control panels main board)

Following are the specifications of each of the previously-mentioned protocols.

#### 3.1 Modbus RTU and Modbus over TCP/IP

A BMS software connected to a Previdia control panel via Modbus protocol is capable of monitoring and managing the control panel itself and all the control panels interconnected with it via HorNet+ network or IDANet network (for further details regarding networking refer to the Previdia networking guide).

For this reason it is necessary to configure a Modbus address for each control panel to be reached.

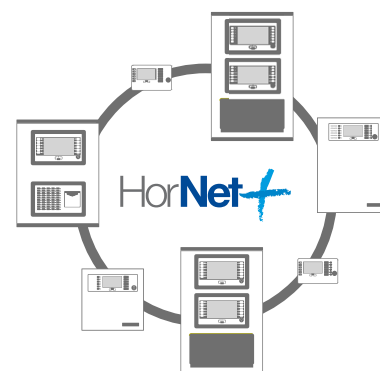
This setting must be done through the configuration software Previdia/Studio.

1. Open the Previdia/Studio solution that represents the system.
2. Select, from the control panels configured in the network, the control panel the BMS is connected to (via TCP/IP or RS485).
3. Access to the control panel CPU programming section:
  - for Previdia Max e Ultra:** Click first on the FPMCPU or FPAMIAS module icon and then on the display.
  - for Previdia Compact:** Click first on the display.
  - for PREVIDIA-C-REP:** You access directly to the section of interests.
4. The section shows the **Modbus address** button. Click on the button.

For each of the control panels connected in the HorNet+ or IDANet network, the software will allow you to set on the Modbus the address to which to respond. If you select the "No Address" setting the control panel in question will not respond to Modbus commands (protocol disabled).

For the MODBUS RTU protocol available on the RS485 port of the FPMCPU module, the RS485 serial parameters are set as follows:

- BitRate: 115200
- DataBit: 8
- Parity: Peer
- Stop bit: 1



**Note:** *Modbus RTU and Modbus TCP/IP protocols are available and are not subject to an activation licence.*

The Previdia control panel carries out the following commands via the Modbus:

- READ INPUT REGISTERS
- WRITE SINGLE COIL

With a single reading the maximum number of readable registers is 125.

### 3.1.1 Register Mapping

The "READ INPUT REGISTERS" command serves to interrogate the control panel in relation to its status and the status of its connected components in accordance with the register mapping as shown below:

Registers for Previdia Max and Ultra fire-control panel (use Modbus 0x04 command to read)																		
Address	Name	High byte								Low byte								
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	
0	Control panel details Status 1	Access with level 1-4			Silenced Buzzer			Investigation	Mute	Night mode				Disabled	Fault	Early warning	Pre-alarm	Alarm
1	Control panel details Status 2							Fault on +24 RS485-2	Fault on +24 RS485-1				Fault on ground (earth)	RT network	Fault on network	Low battery	Fault on battery	
2	Modules fault	Module fault IFMDIAL	Module fault IFMNET	Fault CPU emergency	Module fault IFMLAN	Module fault IFM16IO 4	Module fault IFM16IO 3	Module fault IFM16IO 2	Module fault IFM16IO 1	Module fault IFM2L 8	Module fault IFM2L 7	Module fault IFM2L 6	Module fault IFM2L 5	Module fault IFM2L 4	Module fault IFM2L 3	Module fault IFM2L 2	Module fault IFM2L 1	
3	Module fault IFMEXT 1-16	Module fault IFMEXT 16	Module fault IFMEXT 15	Module fault IFMEXT 14	Module fault IFMEXT 13	Module fault IFMEXT 12	Module fault IFMEXT 11	Module fault IFMEXT 10	Module fault IFMEXT 9	Module fault IFMEXT 8	Module fault IFMEXT 7	Module fault IFMEXT 6	Module fault IFMEXT 5	Module fault IFMEXT 4	Module fault IFMEXT 3	Module fault IFMEXT 2	Module fault IFMEXT 1	
4	Module fault IFMEXT 17-24									Module fault IFMEXT 24	Module fault IFMEXT 23	Module fault IFMEXT 22	Module fault IFMEXT 21	Module fault IFMEXT 20	Module fault IFMEXT 19	Module fault IFMEXT 18	Module fault IFMEXT 17	
5	Module fault IFM4IO	Module fault IFM4IO 16	Module fault IFM4IO 15	Module fault IFM4IO 14	Module fault IFM4IO 13	Module fault IFM4IO 12	Module fault IFM4IO 11	Module fault IFM4IO 10	Module fault IFM4IO 9	Module fault IFM4IO 8	Module fault IFM4IO 7	Module fault IFM4IO 6	Module fault IFM4IO 5	Module fault IFM4IO 4	Module fault IFM4IO 3	Module fault IFM4IO 2	Module fault IFM4IO 1	
6	Front-plate modules fault					Module fault power supply 4	Module fault power supply 3	Module fault power supply 2	Module fault power supply 1		Module fault FPMLED 7	Module fault FPMLED 6	Module fault FPMLED 5	Module fault FPMLED 4	Module fault FPMLED 3	Module fault FPMLED 2	Module fault FPMLED 1	
7	Module fault IFM4R	Module fault IFM4R 16	Module fault IFM4R 15	Module fault IFM4R 14	Module fault IFM4R 13	Module fault IFM4R 12	Module fault IFM4R 11	Module fault IFM4R 10	Module fault IFM4R 9	Module fault IFM4R 8	Module fault IFM4R 7	Module fault IFM4R 6	Module fault IFM4R 5	Module fault IFM4R 4	Module fault IFM4R 3	Module fault IFM4R 2	Module fault IFM4R 1	
8	Active Timers 1	Timer 16	Timer 15	Timer 14	Timer 13	Timer 12	Timer 11	Timer 10	Timer 9	Timer 8	Timer 7	Timer 6	Timer 5	Timer 4	Timer 3	Timer 2	Timer 1	
9	Active Timers 2	Timer 32	Timer 31	Timer 30	Timer 29	Timer 28	Timer 27	Timer 26	Timer 25	Timer 24	Timer 23	Timer 22	Timer 21	Timer 20	Timer 19	Timer 18	Timer 17	
10	Disabled Timers 1	Timer 16	Timer 15	Timer 14	Timer 13	Timer 12	Timer 11	Timer 10	Timer 9	Timer 8	Timer 7	Timer 6	Timer 5	Timer 4	Timer 3	Timer 2	Timer 1	
11	Disabled Timers 2	Timer 32	Timer 31	Timer 30	Timer 29	Timer 28	Timer 27	Timer 26	Timer 25	Timer 24	Timer 23	Timer 22	Timer 21	Timer 20	Timer 19	Timer 18	Timer 17	

**Registers for Previdia Max and Ultra fire-control panel (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
12	Loop fault	Fault loop 16	Fault loop 15	Fault loop 14	Fault loop 13	Fault loop 12	Fault loop 11	Fault loop 10	Fault loop 9	Fault loop 8	Fault loop 7	Fault loop 6	Fault loop 5	Fault loop 4	Fault loop 3	Fault loop 2	Fault loop 1
13	Loop disabled	Loop 16 disabled	Loop 15 disabled	Loop 14 disabled	Loop 13 disabled	Loop 12 disabled	Loop 11 disabled	Loop 10 disabled	Loop 9 disabled	Loop 8 disabled	Loop 7 disabled	Loop 6 disabled	Loop 5 disabled	Loop 4 disabled	Loop 3 disabled	Loop 2 disabled	Loop 1 disabled
20	Status of telephone communicator 1	Monitoring failed	Call queue full	SMS fault	SMS OK	Fault call failed	Fault call OK	Alarm call failed	Alarm call OK	Ongoing fault call	Ongoing alarm call				GPRS Fault	PSTN Fault	GSM Fault
21	Status of telephone communicator 2					Fault GSM module	Provider unavailable	Fault on SIM Card	Weak signal						Info call disabled	Fault call disabled	Alarm call disabled
22	Communicator status icons	Status icons Alarm communicator								Status icons communicator fault							
25	Fire extinguishment module 1									Fault	Automatic stop	Manual stop	Pre-extinction	Extinction	Manual disabled	Automatic disabled	Disabled
...	...																
48	Fire extinguishment module 24									Fault	Automatic stop	Manual stop	Pre-extinction	Extinction	Manual disabled	Automatic disabled	Disabled
49	Extinction module 1 terminals faults			Short circuit on HOLD	HOLD open	Short circuit on MAN.-EXT	MAN.-EXT open	Short circuit on PRESSOS.	PRESSOS. open	Short circuit on STOP-EXT	STOP-EXT open	Short circuit on PRE-EXT	PRE-EXT open	Short circuit on RELEASED	RELEASED open	Short circuit on VALVE	VALVE open
...	...																
72	Extinction module 24 terminals faults			Short circuit on HOLD	HOLD open	Short circuit on MAN.-EXT	MAN.-EXT open	Short circuit on PRESSOS.	PRESSOS. open	Short circuit on STOP-EXT	STOP-EXT open	Short circuit on PRE-EXT	PRE-EXT open	Short circuit on RELEASED	RELEASED open	Short circuit on VALVE	VALVE open
100	Zone 1 Zone 2	Zone 2								Zone 1							
		Smoke detection disabled	Test	Do not use	Disabled	Fault	Early warning	Pre-alarm	Alarm	Smoke detection disabled	Test	Do not use	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
599	Zone 999 Zone 1000	Zone 1000								Zone 999							
		Smoke detection disabled	Test	Do not use	Disabled	Fault	Early warning	Pre-alarm	Alarm	Smoke detection disabled	Test	Do not use	Disabled	Fault	Early warning	Pre-alarm	Alarm

**Registers for Previdia Max and Ultra fire-control panel (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
600	Group 1 Group 2	Group 2								Group 1							
		Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm
...	...																
719	Group 239 Group 240	Group 240								Group 239							
		Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm
...	...																
868	IFM16IO 1 Module channels 1, 2	IFM16IO 1 Module, channel 2								IFM16IO 1 Module, channel 1							
		Do not use	Input activated in test mode	Output status	Disabled	Do not use	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Do not use	Early warning	Pre-alarm	Alarm
...	...																
899	IFM16IO 4 Module channels 15, 16	IFM16IO 4 Module, channel 16								IFM16IO 4 Module, channel 15							
		Do not use	Input activated in test mode	Output status	Disabled	Do not use	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Do not use	Early warning	Pre-alarm	Alarm
...	...																
900	IFM4IO 1 Module channels 1, 2	IFM4IO 1 Module, channel 2								IFM4IO 1 Module, channel 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
931	IFM4IO 16 Module channels 3, 4	IFM4IO 16 Module, channel 4								IFM4IO 16 Module, channel 3							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
932	IFM4R 1 Module channels 1, 2	IFM4R 1 Module, channel 2								IFM4R 1 Module, channel 1							
		Do not use	Do not use	Output status	Disabled	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Do not use	Do not use	Do not use	Do not use
...	...																
963	IFM4R 16 Module channels 3, 4	IFM4R 16 Module, channel 4								IFM4R 16 Module, channel 3							
		Do not use	Do not use	Output status	Disabled	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Do not use	Do not use	Do not use	Do not use
...	...																
964	Power-supply module 1 output 1 output 2	Power-supply module 1, output 2								Power-supply module 1, output 1							
		Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use

**Registers for Previdia Max and Ultra fire-control panel (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte								
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	
965	Power-supply module 1, output 3 Power-supply module 2, output 1	Power-supply module 2, output 1								Power-supply module 1, output 3								
		Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use
966	Power-supply module 2 output 2 output 3	Power-supply module 2, output 3								Power-supply module 2, output 2								
		Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use
967	Power-supply module 3 output 1 output 2	Power-supply module 3, output 2								Power-supply module 3, output 1								
		Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use
968	Power-supply module 3, output 3 Power-supply module 4, output 1	Power-supply module 4, output 1								Power-supply module 3, output 3								
		Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use
969	Power-supply module 4 output 2 output 3	Power-supply module 4, output 3								Power-supply module 4, output 2								
		Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use
1000	Information not shared over Hornet																	Re-arm the control panel
1001	Loop 1 Address 1 Address 2	Loop1 address 2								Loop1 address 1								
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	
...	...																	
1120	Loop 1 Address 239 Address 240	Loop1 address 240								Loop1 address 239								
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	
1121	Loop 2 Address 1 Address 2	Loop 2 address 2								Loop 2 address 1								
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	
...	...																	
1240	Loop 2 Address 239 Address 240	Loop 2 address 240								Loop 2 address 239								
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	
1241	Loop 3 Address 1 Address 2	Loop 3 address 2								Loop 3 address 1								
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	
...	...																	

## Registers for Previdia Max and Ultra fire-control panel (use Modbus 0x04 command to read)

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
1360	Loop 3 Address 239 Address 240	Loop 3 address 240								Loop 3 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
1361	Loop 4 Address 1 Address 2	Loop 4 address 2								Loop 4 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
1480	Loop 4 Address 239 Address 240	Loop 4 address 240								Loop 4 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
1481	Loop 5 Address 1 Address 2	Loop 5 address 2								Loop 5 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
1600	Loop 5 Address 239 Address 240	Loop 5 address 240								Loop 5 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
1601	Loop 6 Address 1 Address 2	Loop 6 address 2								Loop 6 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
1720	Loop 6 Address 239 Address 240	Loop 6 address 240								Loop 6 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
1721	Loop 7 Address 1 Address 2	Loop 7 address 2								Loop 7 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
1840	Loop 7 Address 239 Address 240	Loop 7 address 240								Loop 7 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
1841	Loop 8 Address 1 Address 2	Loop 8 address 2								Loop 8 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																

**Registers for Previdia Max and Ultra fire-control panel (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
1960	Loop 8 Address 239 Address 240	Loop 8 address 240								Loop 8 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
1961	Loop 9 Address 1 Address 2	Loop 9 address 2								Loop 9 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
2080	Loop 9 Address 239 Address 240	Loop 9 address 240								Loop 9 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
2081	Loop 10 Address 1 Address 2	Loop 10 address 2								Loop 10 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
2200	Loop 10 Address 239 Address 240	Loop 10 address 240								Loop 10 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
2201	Loop 11 Address 1 Address 2	Loop 11 address 2								Loop 11 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
2320	Loop 11 Address 239 Address 240	Loop 11 address 240								Loop 11 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
2321	Loop 12 Address 1 Address 2	Loop 12 address 2								Loop 12 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
2440	Loop 12 Address 239 Address 240	Loop 12 address 240								Loop 12 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
2441	Loop 13 Address 1 Address 2	Loop 13 address 2								Loop 13 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																

## Registers for Previdia Max and Ultra fire-control panel (use Modbus 0x04 command to read)

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
2560	Loop 13 Address 239 Address 240	Loop 13 address 240								Loop 13 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
2561	Loop 14 Address 1 Address 2	Loop 14 address 2								Loop 14 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
2680	Loop 14 Address 239 Address 240	Loop 14 address 240								Loop 14 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
2681	Loop 15 Address 1 Address 2	Loop 15 address 2								Loop 15 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
2800	Loop 15 Address 239 Address 240	Loop 15 address 240								Loop 15 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
2801	Loop 16 Address 1 Address 2	Loop 16 address 2								Loop 16 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
2920	Loop 16 Address 239 Address 240	Loop 16 address 240								Loop 16 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm

**Registers for Previdia Compact control panels (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
0	Control panel details Status 1	Access with levels 1-4				Silenced Buzzer	Investigation	Mute	Night mode	Sounder-flasher faults	Sounder-flashers disabled	Sounder-flashers active	Disabled System	System Fault	Early warning System	Pre-alarm System	Alarm System
1	Control panel details Status 2	Control panel disabled	Control panel fault	Control panel notification	Control panel pre-alarm	Control panel alarm		Fault on +24 RS485-2	Fault on +24 RS485-1				Fault on ground (earth)	RT network	Fault on network	Low battery	Fault on battery
2	Fault on boards 1	PREVIDIA-C-DIAL board fault															I/O board fault
6	Fault on boards 2							Power-supply module fault		PREVIDIA-C-COM module fault							LED module fault
8	Active Timers 1	Timer 16	Timer 15	Timer 14	Timer 13	Timer 12	Timer 11	Timer 10	Timer 9	Timer 8	Timer 7	Timer 6	Timer 5	Timer 4	Timer 3	Timer 2	Timer 1
9	Active Timers 2	Timer 32	Timer 31	Timer 30	Timer 29	Timer 28	Timer 27	Timer 26	Timer 25	Timer 24	Timer 23	Timer 22	Timer 21	Timer 20	Timer 19	Timer 18	Timer 17
10	Disabled Timers 1	Timer 16	Timer 15	Timer 14	Timer 13	Timer 12	Timer 11	Timer 10	Timer 9	Timer 8	Timer 7	Timer 6	Timer 5	Timer 4	Timer 3	Timer 2	Timer 1
11	Disabled Timers 2	Timer 32	Timer 31	Timer 30	Timer 29	Timer 28	Timer 27	Timer 26	Timer 25	Timer 24	Timer 23	Timer 22	Timer 21	Timer 20	Timer 19	Timer 18	Timer 17
12	Loop fault															Loop 2 fault	Loop 1 fault
13	Loop disabled															Loop 2 disabled	Loop 1 disabled
20	Status of telephone communicator 1	Monitoring failed	Call queue full	SMS fault	SMS OK	Fault call failed	Fault call OK	Alarm call failed	Alarm call OK	Ongoing Fault call	Ongoing Alarm call				GPRS Fault	PSTN Fault	GSM Fault

**Registers for Previdia Compact control panels (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
21	Status of telephone communicator 2	S/A fault over Ethernet				PREVIDIA-C-DIAL board fault	Provider unavailable	Fault on SIM Card	Weak signal						Info call disabled	Fault call disabled	Alarm call disabled
22	Communicator status icons	Status icons alarm communicator								Status icons fault communicator							
23	Status of the PREVIDIA-C-COM module	Fault on second WW pathway	Fault on first WW pathway	Configuration on second WW pathway	Configuration on first WW pathway				0: faults on WW 1: WW functioning	WW loss	Smart485in not present	EVAC disabled	Ethernet processor not present	Fault on +24 RS485-2	Fault on +24 RS485-1	EVAC Fault	ESPA 4.4.4 fault
25	Fire extinguishment module									Fault	Automatic stop	Manual stop	Pre-extinction	Extinction	Manual disabled	Automatic disabled	Disabled
49	Faults on electrovalve terminal (I/O 4)															Short circuit	Open
100	Zone 1 Zone 2	Zone 2								Zone 1							
...	...	Smoke detection disabled	Test	Do not use	Disabled	Fault	Early warning	Pre-alarm	Alarm	Smoke detection disabled	Test	Do not use	Disabled	Fault	Early warning	Pre-alarm	Alarm
599	Zone 999 Zone 1000	Zone 1000								Zone 999							
600	Group 1 Group 2	Group 2								Group 1							
...	...	Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm
719	Group 239 Group 240	Group 240								Group 239							
900	Channels I/O 1, I/O 2	Channel I/O 2								Channel I/O 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm

**Registers for Previdia Compact control panels (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
901	Channels I/O 3, I/O 4	Channel I/O 4								Channel I/O 3							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
932	Relay output	Relay output								Relay output							
										Do not use	Do not use	Output status	Disabled	Do not use	Do not use	Do not use	Do not use
1000	Information not shared over Hornet																Re-arm the control panel
1001	Loop 1 Address 1 Address 2	Loop1 address 2								Loop1 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
1120	Loop 1 Address 239 Address 240	Loop1 address 240								Loop1 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
1121	Loop 2 Address 1 Address 2	Loop 2 address 2								Loop 2 address 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
1240	Loop 2 Address 239 Address 240	Loop 2 address 240								Loop 2 address 239							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm

**Registers for the Previdia Ultra emergency voice control panels (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
0	Control panel details Status 1	Access with levels 1-4				Silenced Buzzer		Silenced					Disabled	Fault	Staff Alert	Alert	Evacuation
1	Control panel details Status 2	Local disablement	Local fault	Local alert	Local evacuation	Emergency						Fault on ground (earth)	RT network	Fault on network	Low battery	Fault on battery	
2	Modules fault		Missing IHornet module			IFM16IO 4 module fault	IFM16IO 3 module fault	IFM16IO 2 module fault	IFM16IO 1 module fault								
5	IFM4IO module fault	IFM4IO 16 module fault	IFM4IO 15 module fault	IFM4IO 14 module fault	IFM4IO 13 module fault	IFM4IO 12 module fault	IFM4IO 11 module fault	IFM4IO 10 module fault	IFM4IO 9 module fault	IFM4IO 8 module fault	IFM4IO 7 module fault	IFM4IO 6 module fault	IFM4IO 5 module fault	IFM4IO 4 module fault	IFM4IO 3 module fault	IFM4IO 2 module fault	IFM4IO 1 module fault
6	Front-plate modules fault					Power-supply module 4 fault	Power-supply module 3 fault	Power-supply module 2 fault	Power-supply module 1 fault		FPMLED 7 module fault	FPMLED 6 module fault	FPMLED 5 module fault	FPMLED 4 module fault	FPMLED 3 module fault	FPMLED 2 module fault	FPMLED 1 module fault
7	IFM4R module fault	IFM4R 16 module fault	IFM4R 15 module fault	IFM4R 14 module fault	IFM4R 13 module fault	IFM4R 12 module fault	IFM4R 11 module fault	IFM4R 10 module fault	IFM4R 9 module fault	IFM4R 8 module fault	IFM4R 7 module fault	IFM4R 6 module fault	IFM4R 5 module fault	IFM4R 4 module fault	IFM4R 3 module fault	IFM4R 2 module fault	IFM4R 1 module fault
8	Active Timers 1	Timer 16	Timer 15	Timer 14	Timer 13	Timer 12	Timer 11	Timer 10	Timer 9	Timer 8	Timer 7	Timer 6	Timer 5	Timer 4	Timer 3	Timer 2	Timer 1
9	Active Timers 2	Timer 32	Timer 31	Timer 30	Timer 29	Timer 28	Timer 27	Timer 26	Timer 25	Timer 24	Timer 23	Timer 22	Timer 21	Timer 20	Timer 19	Timer 18	Timer 17
10	Disabled Timers 1	Timer 16	Timer 15	Timer 14	Timer 13	Timer 12	Timer 11	Timer 10	Timer 9	Timer 8	Timer 7	Timer 6	Timer 5	Timer 4	Timer 3	Timer 2	Timer 1
11	Disabled Timers 2	Timer 32	Timer 31	Timer 30	Timer 29	Timer 28	Timer 27	Timer 26	Timer 25	Timer 24	Timer 23	Timer 22	Timer 21	Timer 20	Timer 19	Timer 18	Timer 17
600	Outputs group 1	Group 2								Group 1							
	Outputs group 2	Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm
...	...																
719	Outputs group 239	Group 240								Group 239							
	Outputs group 240	Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm

**Registers for the Previdia Ultra emergency voice control panels (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
868	IFM16IO 1 Module channels 1, 2	IFM16IO 1 Module, channel 2								IFM16IO 1 Module, channel 1							
		Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm
...	...																
899	IFM16IO 4 Module channels 15, 16	IFM16IO 4 Module, channel 16								IFM16IO 4 Module, channel 15							
		Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Do not use	Disabled	Do not use	Early warning	Pre-alarm	Alarm
...	...																
900	IFM4IO 1 Module channels 1, 2	IFM4IO 1 Module, channel 2								IFM4IO 1 Module, channel 1							
		Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Input activated in test mode	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
931	IFM4IO 16 Module channels 3, 4	IFM4IO 16 Module, channel 4								IFM4IO 16 Module, channel 3							
		Do not use	Do not use	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
932	Module IFM4R 1 channels 1, 2	IFM4R 1 Module, channel 2								IFM4R 1 Module, channel 1							
		Do not use	Do not use	Output status	Disabled	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Do not use	Do not use	Do not use	Do not use
...	...																
963	Module IFM4R 16 channels 3, 4	IFM4R 16 Module, channel 4								IFM4R 16 Module, channel 3							
		Do not use	Do not use	Output status	Disabled	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Do not use	Do not use	Do not use	Do not use
...	...																
964	Power-supply module 1 output 1 Output 2	Power-supply module 1, output 2								Power-supply module 1, output 1							
		Do not use	Do not use	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
965	Power-supply module 1, output 3 Power-supply module 2, output 1	Power-supply module 2, output 1								Power-supply module 1, output 3							
		Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use
...	...																
966	Power-supply module 2 output 2 output 3	Power-supply module 2, output 3								Power-supply module 2, output 2							
		Do not use	Do not use	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																
967	Power-supply module 3 output 1 output 2	Power-supply module 3, output 2								Power-supply module 3, output 1							
		Do not use	Do not use	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Output status	Disabled	Do not use	Do not use	Do not use	Do not use
...	...																
968	Power-supply module 3, output 3 Power-supply module 4, output 1	Power-supply module 4, output 1								Power-supply module 3, output 3							
		Do not use	Do not use	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm	Do not use	Do not use	Output status	Disabled	Fault	Early warning	Pre-alarm	Alarm
...	...																

## Registers for the Previdia Ultra emergency voice control panels (use Modbus 0x04 command to read)

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
969	Power-supply module 4 output 2 output 3	Power-supply module 4, output 3								Power-supply module 4, output 2							
		Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Output status	Disabled	Fault	Do not use	Do not use
1000	Information not shared over Hornet/IDANet																Re-arm the control panel
3000	Audio zone 1 Byte 1 Byte 2	Status															
		Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Now playing	Pause	Speakerphone	Disabled	Fault	Staff Alert
3001	Audio zone 1 Byte 3 Byte 4	Source															
		Identifier								Control panel							
3002	Audio zone 1 Byte 5 Byte 6	Do not use								Priority							
...																	
5997	Audio zone 1000 Byte 1 Byte 2	Status															
		Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Now playing	Pause	Speakerphone	Disabled	Fault	Staff Alert
5998	Audio zone 1000 Byte 3 Byte 4	Source															
		Identifier								Control panel							
5999	Audio zone 1000 Byte 5 Byte 6	Do not use								Priority							
6000	Internal audio channel 1 Byte 1 Byte 2	Source															
		Identifier								Control panel							
6001	Internal audio channel 1 Byte 3 Byte 4	Byte mask zone 1								Status							
		Audio Zone 8	Audio Zone 7	Audio Zone 6	Audio Zone 5	Audio Zone 4	Audio Zone 3	Audio Zone 2	Audio Zone 1	Do not use	Do not use	Now playing	Message playback finished	Silenced	Pause	Message playback	Speakerphone
...																	
6063	Internal audio channel 1 Byte 127 Byte 128	Byte mask zone 125								Byte mask zone 124							
		Audio Zone 1000	Audio Zone 999	Audio Zone 998	Audio Zone 997	Audio Zone 996	Audio Zone 995	Audio Zone 994	Audio Zone 993	Audio Zone 992	Audio Zone 991	Audio Zone 990	Audio Zone 989	Audio Zone 988	Audio Zone 987	Audio Zone 986	Audio Zone 985

**Registers for the Previdia Ultra emergency voice control panels (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
6064	Internal audio channel 1 Byte 129 Byte 130	Do not use								Priority							
6065	Internal audio channel 1 Byte 131 Byte 132	Source								Character Label 0							
6066	Internal audio channel 1 Byte 133 Byte 134	Source								Character Label 2							
...																	
6074	Internal audio channel 1 Byte 149 Byte 150	Source								Character Label 18							
6075	Internal audio channel 1 Byte 151 Byte 152	Cause identifier Control panel								Control panel							
6076	Internal audio channel 1 Byte 153 Byte 154	Cause								Character Label 0							
6077	Internal audio channel 1 Byte 155 Byte 156	Cause								Character Label 2							
...																	
6085	Internal audio channel 1 Byte 171 Byte 172	Cause								Character Label 18							
6086	Internal audio channel 1 Byte 1 Byte 2	Source identifier Control panel								Control panel							
...																	
6087	Internal audio channel 2 Byte 3 Byte 4	Byte mask zone 1								Status							
		Audio Zone 8	Audio Zone 7	Audio Zone 6	Audio Zone 5	Audio Zone 4	Audio Zone 3	Audio Zone 2	Audio Zone 1	Do not use	Do not use	Now playing	Message playback finished	Silenced	Pause	Message playback	Speakerphone
...																	
6149	Internal audio channel 2 Byte 127 Byte 128	Byte mask zone 125								Byte mask zone 124							
		Audio Zone 1000	Audio Zone 999	Audio Zone 998	Audio Zone 997	Audio Zone 996	Audio Zone 995	Audio Zone 994	Audio Zone 993	Audio Zone 992	Audio Zone 991	Audio Zone 990	Audio Zone 989	Audio Zone 988	Audio Zone 987	Audio Zone 986	Audio Zone 985
6150	Internal audio channel 2 Byte 129 Byte 130	Do not use								Priority							
6151	Internal audio channel 2 Byte 131 Byte 132	Source								Character Label 0							

**Registers for the Previdia Ultra emergency voice control panels (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
6152	Internal audio channel 2 Byte 133 Byte 134	Source															
		Character Label 3								Character Label 2							
...																	
6160	Internal audio channel 2 Byte 149 Byte 150	Source															
		Character Label 19								Character Label 18							
6161	Internal audio channel 2 Byte 151 Byte 152	Cause															
		Identifier								Control panel							
6162	Internal audio channel 2 Byte 153 Byte 154	Cause															
		Character Label 1								Character Label 0							
6163	Internal audio channel 2 Byte 155 Byte 156	Cause															
		Character Label 3								Character Label 2							
...																	
6171	Internal audio channel 2 Byte 171 Byte 172	Cause															
		Character Label 19								Character Label 18							
...																	
6602	Internal audio channel 8 Byte 1 Byte 2	Source															
		Identifier								Control panel							
6603	Internal audio channel 8 Byte 3 Byte 4	Byte mask zone 1								Status							
		Audio Zone 8	Audio Zone 7	Audio Zone 6	Audio Zone 5	Audio Zone 4	Audio Zone 3	Audio Zone 2	Audio Zone 1	Do not use	Do not use	Now playing	Message playback finished	Silenced	Pause	Message playback	Speakerphone
...																	
6665	Internal audio channel 8 Byte 127 Byte 128	Byte mask zone 125								Byte mask zone 124							
		Audio Zone 1000	Audio Zone 999	Audio Zone 998	Audio Zone 997	Audio Zone 996	Audio Zone 995	Audio Zone 994	Audio Zone 993	Audio Zone 992	Audio Zone 991	Audio Zone 990	Audio Zone 989	Audio Zone 988	Audio Zone 987	Audio Zone 986	Audio Zone 985
6666	Internal audio channel 8 Byte 129 Byte 130	Do not use								Priority							
		Source															
6667	Internal audio channel 8 Byte 131 Byte 132	Character Label 1								Character Label 0							
		Source															
6668	Internal audio channel 8 Byte 133 Byte 134	Character Label 3								Character Label 2							

**Registers for the Previdia Ultra emergency voice control panels (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
6676	Internal audio channel 8 Byte 149 Byte 150	Source															
		Character Label 19								Character Label 18							
6677	Internal audio channel 8 Byte 151 Byte 152	Cause															
		Identifier								Control panel							
6678	Internal audio channel 8 Byte 153 Byte 154	Cause															
		Character Label 1								Character Label 0							
6679	Internal audio channel 8 Byte 155 Byte 156	Cause															
		Character Label 3								Character Label 2							
...																	
6687	Internal audio channel 8 Byte 171 Byte 172	Cause															
		Character Label 19								Character Label 18							
6688	External audio channel 1 Byte 1 Byte 2	Source															
		Identifier								Control panel							
6689	External audio channel 1 Byte 3 Byte 4	Byte mask zone 1								Status							
		Audio Zone 8	Audio Zone 7	Audio Zone 6	Audio Zone 5	Audio Zone 4	Audio Zone 3	Audio Zone 2	Audio Zone 1	Do not use	Do not use	Now playing	Message playback finished	Silenced	Pause	Message playback	Speakerphone
...																	
6751	External audio channel 1 Byte 127 Byte 128	Byte mask zone 125								Byte mask zone 124							
		Audio Zone 1000	Audio Zone 999	Audio Zone 998	Audio Zone 997	Audio Zone 996	Audio Zone 995	Audio Zone 994	Audio Zone 993	Audio Zone 992	Audio Zone 991	Audio Zone 990	Audio Zone 989	Audio Zone 988	Audio Zone 987	Audio Zone 986	Audio Zone 985
6752	External audio channel 1 Byte 129 Byte 130	Do not use								Priority							
6753	External audio channel 1 Byte 131 Byte 132	Source															
		Do not use								Character Label 0							
6754	External audio channel 1 Byte 133 Byte 134	Source															
		Character Label 3								Character Label 2							
...																	
6762	External audio channel 1 Byte 149 Byte 150	Source															
		Character Label 19								Character Label 18							
6763	External audio channel 1 Byte 151 Byte 152	Cause (Do not use)															
		Identifier								Control panel							

**Registers for the Previdia Ultra emergency voice control panels (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
6764	External audio channel 1 Byte 153 Byte 154	Cause								Character Label 0							
		Do not use															
6765	External audio channel 1 Byte 155 Byte 156	Cause								Character Label 2							
		Character Label 3															
...																	
6773	External audio channel 1 Byte 171 Byte 172	Cause								Character Label 18							
		Character Label 19															
...																	
7290	External audio channel 8 Byte 1 Byte 2	Source								Control panel							
		Identifier															
7291	External audio channel 8 Byte 3 Byte 4	Byte mask zone 1								Status							
		Audio Zone 8	Audio Zone 7	Audio Zone 6	Audio Zone 5	Audio Zone 4	Audio Zone 3	Audio Zone 2	Audio Zone 1	Do not use	Do not use	Now playing	Message playback finished	Silenced	Pause	Message playback	Speakerphone
...																	
7353	External audio channel 8 Byte 127 Byte 128	Byte mask zone 125								Byte mask zone 124							
		Audio Zone 1000	Audio Zone 999	Audio Zone 998	Audio Zone 997	Audio Zone 996	Audio Zone 995	Audio Zone 994	Audio Zone 993	Audio Zone 992	Audio Zone 991	Audio Zone 990	Audio Zone 989	Audio Zone 988	Audio Zone 987	Audio Zone 986	Audio Zone 985
7354	External audio channel 8 Byte 129 Byte 130	Do not use								Priority							
7355	External audio channel 8 Byte 131 Byte 132	Source								Character Label 0							
		Do not use															
7356	External audio channel 8 Byte 133 Byte 134	Source								Character Label 2							
		Character Label 3															
...																	
7364	External audio channel 8 Byte 149 Byte 150	Source								Character Label 18							
		Character Label 19															
7365	External audio channel 8 Byte 151 Byte 152	Cause (Do not use)								Control panel							
		Identifier															
7366	External audio channel 8 Byte 153 Byte 154	Cause								Character Label 0							
		Do not use															
7367	External audio channel 8 Byte 155 Byte 156	Cause								Character Label 2							
		Character Label 3															

**Registers for the Previdia Ultra emergency voice control panels (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
...																	
7375	External audio channel 8 Byte 171 Byte 172	Cause															
		Character Label 19								Character Label 18							
7376	Audio timers active 1	Timer 16	Timer 15	Timer 14	Timer 13	Timer 12	Timer 11	Timer 10	Timer 9	Timer 8	Timer 7	Timer 6	Timer 5	Timer 4	Timer 3	Timer 2	Timer 1
7377	Audio timers active 2	Timer 32	Timer 31	Timer 30	Timer 29	Timer 28	Timer 27	Timer 26	Timer 25	Timer 24	Timer 23	Timer 22	Timer 21	Timer 20	Timer 19	Timer 18	Timer 17
7378	Audio timers disabled 1	Timer 16	Timer 15	Timer 14	Timer 13	Timer 12	Timer 11	Timer 10	Timer 9	Timer 8	Timer 7	Timer 6	Timer 5	Timer 4	Timer 3	Timer 2	Timer 1
7379	Audio timers disabled 2	Timer 32	Timer 31	Timer 30	Timer 29	Timer 28	Timer 27	Timer 26	Timer 25	Timer 24	Timer 23	Timer 22	Timer 21	Timer 20	Timer 19	Timer 18	Timer 17
7380	Audio sources fault	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Source 10	Source 9	Source 8	Source 7	Source 6	Source 5	Source 4	Source 3	Source 2	Source 1
7381	Audio sources disabled	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Source 10	Source 9	Source 8	Source 7	Source 6	Source 5	Source 4	Source 3	Source 2	Source 1
7382	Audio sources playing	Do not use	Do not use	Do not use	Do not use	Do not use	Do not use	Source 10	Source 9	Source 8	Source 7	Source 6	Source 5	Source 4	Source 3	Source 2	Source 1
7383	Audio Amplifiers fault 1	Amplifier 16	Amplifier 15	Amplifier 14	Amplifier 13	Amplifier 12	Amplifier 11	Amplifier 10	Amplifier 9	Amplifier 8	Amplifier 7	Amplifier 6	Amplifier 5	Amplifier 4	Amplifier 3	Amplifier 2	Amplifier 1
7384	Audio Amplifiers fault 2	Amplifier 32	Amplifier 31	Amplifier 30	Amplifier 29	Amplifier 28	Amplifier 27	Amplifier 26	Amplifier 25	Amplifier 24	Amplifier 23	Amplifier 22	Amplifier 21	Amplifier 20	Amplifier 19	Amplifier 18	Amplifier 17
7385	Audio Amplifiers disabled 1	Amplifier 16	Amplifier 15	Amplifier 14	Amplifier 13	Amplifier 12	Amplifier 11	Amplifier 10	Amplifier 9	Amplifier 8	Amplifier 7	Amplifier 6	Amplifier 5	Amplifier 4	Amplifier 3	Amplifier 2	Amplifier 1
7386	Audio Amplifiers disabled 2	Amplifier 32	Amplifier 31	Amplifier 30	Amplifier 29	Amplifier 28	Amplifier 27	Amplifier 26	Amplifier 25	Amplifier 24	Amplifier 23	Amplifier 22	Amplifier 21	Amplifier 20	Amplifier 19	Amplifier 18	Amplifier 17
7387	FFT audio faults 1	FFT 4				FFT 3				FFT 2				FFT 1			
		Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1
7388	FFT audio faults 2	FFT 8				FFT 7				FFT 6				FFT 5			
		Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1
7389	FFT audio faults 3	FFT 12				FFT 11				FFT 10				FFT 9			
		Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1
7390	FFT audio faults 4	FFT 16				FFT 15				FFT 14				FFT 13			
		Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1
7391	FFT audio disabled 1	FFT 4				FFT 3				FFT 2				FFT 1			
		Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1
7392	FFT audio disabled 2	FFT 8				FFT 7				FFT 6				FFT 5			
		Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1

**Registers for the Previdia Ultra emergency voice control panels (use Modbus 0x04 command to read)**

Address	Name	High byte								Low byte							
		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
7393	FFT audio disabled 3	FFI 12				FFI 11				FFI 10				FFI 9			
		Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1
7394	FFT audio disabled 4	FFI 16				FFI 15				FFI 14				FFI 13			
		Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1	Riser 4	Riser 3	Riser 2	Riser 1
7395	Control panel Label Byte 1 Byte 2	Character Label 1								Character Label 0							
7396	Control panel label Byte 133 Byte 134	Character Label 3								Character Label 2							
...																	
7404	Control panel Label Byte 149 Byte 150	Character Label 19								Character Label 19							
7405	Local faults audio zone Byte 1 Byte 2	Byte mask zone 2								Byte mask zone 1							
		Audio Zone 16	Audio Zone 15	Audio Zone 14	Audio Zone 13	Audio Zone 12	Audio Zone 11	Audio Zone 10	Audio Zone 9	Audio Zone 8	Audio Zone 7	Audio Zone 6	Audio Zone 5	Audio Zone 4	Audio Zone 3	Audio Zone 2	Audio Zone 1
...																	
7467	Local faults audio zone Byte 125 Byte 126	Do not use								Byte mask zone 125							
										Audio Zone 1000	Audio Zone 999	Audio Zone 998	Audio Zone 997	Audio Zone 996	Audio Zone 995	Audio Zone 994	Audio Zone 993
7469	Line A Byte 1 Byte 2	Microphone base 2								Microphone base 1							
		Do not use	Do not use	Do not use	Do not use	Emergency	Microphone fault	Enrolled	Lost	Do not use	Do not use	Do not use	Do not use	Emergency	Microphone fault	Enrolled	Lost
...																	
7500	Line A Byte 63 Byte 64	Microphone base 64								Microphone base 63							
		Do not use	Do not use	Do not use	Do not use	Emergency	Microphone fault	Enrolled	Lost	Do not use	Do not use	Do not use	Do not use	Emergency	Microphone fault	Enrolled	Lost
7501	Line B Byte 1 Byte 2	Microphone base 2								Microphone base 1							
		Do not use	Do not use	Do not use	Do not use	Emergency	Microphone fault	Enrolled	Lost	Do not use	Do not use	Do not use	Do not use	Emergency	Microphone fault	Enrolled	Lost
...																	
7532	Line B Byte 63 Byte 64	Microphone base 64								Microphone base 63							
		Do not use	Do not use	Do not use	Do not use	Emergency	Microphone fault	Enrolled	Lost	Do not use	Do not use	Do not use	Do not use	Emergency	Microphone fault	Enrolled	Lost

### 3.1.2 COIL Mapping

By means of the "WRITE SINGLE COIL" command it is possible to carry out operations on the addressed control panel. To activate a COIL command relative to the implementation of an operation it is necessary to set it to "ON".

Following is the map of COIL registers:

#### FPMCPU COIL (use the Modbus 0x05 command)

Address	Name for Previdia Max and Ultra	Address	Name for Previdia Max and Ultra
<b>0</b>	Activate "Action 1"	<b>5500</b>	Enable/Disable relay 1 of the IFM4R 1 module
...	...	...	...
<b>99</b>	Activate "Action 100"	<b>5563</b>	Enable/Disable relay 4 of the IFM4R 16 module
<b>100</b>	Enable/Disable Zone 1	<b>5600</b>	Enable/Disable output 1 of power-supply 1
...	...	...	...
<b>1099</b>	Enable/Disable Zone 1000	<b>5611</b>	Enable/Disable output 1 of power-supply 4
<b>1100</b>	Enable/Disable I/O 1 of IFM4IO 1 module	<b>5700</b>	Enable/Disable address 1 of loop 1
...	...	...	...
<b>1163</b>	Activate/Deactivate I/O 4 of IFM4IO 16 module	<b>9540</b>	Enable/Disable address 240 of loop 16
<b>1200</b>	Enable/Disable relay 1 of the IFM4R 1 module	<b>20000</b>	Perform test for zone 1
...	...	...	...
<b>1263</b>	Activate/Deactivate relay 4 of the IFM4R 16 module	<b>20999</b>	Perform test for zone 1000
<b>1300</b>	Activate/Deactivate output 1 of power-supply module 1	<b>21000</b>	Set day mode
...	...	<b>21001</b>	Switch off buzzer
<b>1311</b>	Activate/Deactivate output 3 of power-supply module 4	<b>21002</b>	Silence
<b>1400</b>	Activate/Deactivate output of device with address 1 of loop 1	<b>21003</b>	Investigation
...	...	<b>21004</b>	End pre-alarms
<b>5239</b>	Activate/Deactivate output of device with address 240 of loop 16	<b>21005</b>	Re-arm
<b>5400</b>	Enable/Disable I/O 1 of IFM4IO 1 module		
...	...		
<b>5463</b>	Enable/Disable I/O 4 of IFM4IO 16 module		

**Previdia Compact COIL (use the Modbus 0x05 command)**

Address	Name for Previdia Compact
0	Activate "Action 1"
...	...
99	Activate "Action 100"
100	Enable/Disable Zone 1
...	...
1099	Enable/Disable Zone 1000
1100	Activate/Deactivate I/O 1
...	...
1103	Activate/Deactivate I/O 4
1200	Activate/Deactivate relay
1400	Activate/Deactivate output of device with address 1 of loop 1
...	...
1879	Activate/Deactivate loop 2 address 240 device's output
5400	Enable/Disable I/O 1
...	...
5403	Enable/Disable I/O 4

Address	Name for Previdia Compact
5500	Enable/Disable relay
5700	Enable/Disable address 1 of loop 1
...	...
6179	Enable/Disable address 240 of loop 2
20000	Perform test for zone 1
...	...
20999	Perform test for zone 1000
21000	Set day mode
21001	Switch off buzzer
21002	Silence
21003	Investigation
21004	End pre-alarms
21005	Re-arm

**FPAMIAS COIL (use the Modbus 0x05 command)**

Address	Name for Previdia Ultra
1100	Enable/Disable I/O 1 of IFM4IO 1 module
...	...
1163	Activate/Deactivate I/O 4 of IFM4IO 16 module
1200	Enable/Disable relay 1 of the IFM4R 1 module
...	...
1263	Activate/Deactivate relay 4 of the IFM4R 16 module
1300	Activate/Deactivate output 1 of the power-supply module 1
...	...
1311	Activate/Deactivate output 3 of power-supply module 4
1400	Activate/Deactivate output of device with address 1 of loop 1
...	...
5239	Activate/Deactivate output of device with address 240 of loop 16
5400	Enable/Disable I/O 1 of IFM4IO 1 module
...	...
5463	Enable/Disable I/O 4 of IFM4IO 16 module

Address	Name for Previdia Ultra
5500	Enable/Disable relay 1 of the IFM4R 1 module
...	...
5563	Enable/Disable relay 4 of the IFM4R 16 module
5600	Enable/Disable output 1 of power-supply 1
...	...
5611	Enable/Disable output 1 of power-supply 4
30000	Enable/Disable audio zone 1
...	...
30999	Enable/Disable audio zone 1000
34000	Enable/Disable audio action 1
...	...
34999	Enable/Disable audio action 1000
35000	Audio emergency
35001	Switch off audio buzzer
35002	Switch off audio
35004	Reset audio

## 3.2 BACnet

BACnet is a building-automation-network communication protocol developed by ASHRAE (American Society of Heating, Refrigeration and Air-Conditioning Engineers). BACnet, as a result of its versatility and flexibility, is now extensively used as a standard communication protocol between devices and building-automation systems made by various manufacturers.

BACnet protocol is implemented on the IFMLAN module for Previdia Max and Ultra control panels and on the PREVIDIA-C-COM-LAN module for Previdia Compact control panels, and its use is subject to a licence.

### 3.2.1 BACnet licence

The licences for use of the BACnet protocol on Previdia control panels must be purchased from Inim Electronics.

The order codes are as follows:

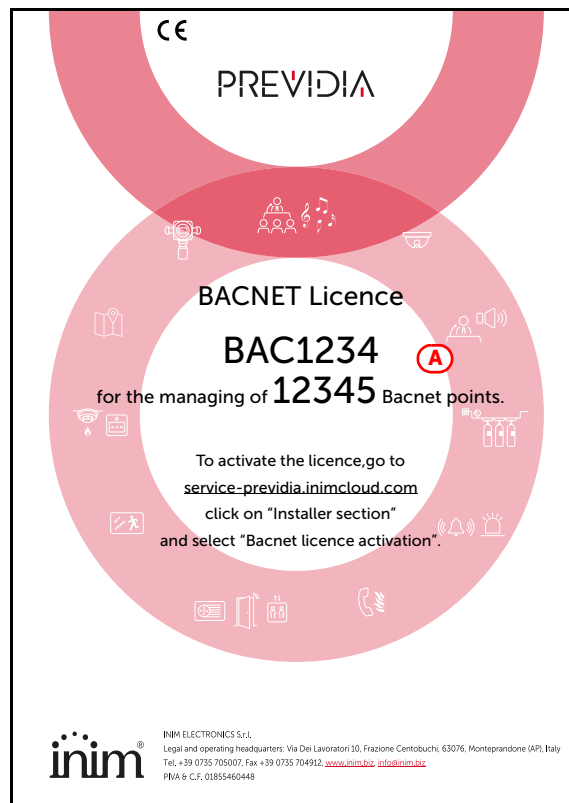
- **INFLINIOPRALICBAC500**, BACnet protocol licence Previdia 500 points, Italian
- **INFLINEOPRALICBAC500**, BACnet protocol licence Previdia 500 points, English

Each licence allows the management of 500 points. For the management of a greater number of points it is necessary to purchase more than one licence. Inim Electronics supplies a single licence containing the sum of the licences purchased as per the format indicated here.

### 3.2.2 Licence activation procedure

1. In order to activate the licence you must communicate the following data to Inim:

- the licence number shown in the letter *[A]*
- the serial number of the LAN module in use *[B]* (IFMLAN for Previdia Max or Ultra and PREVIDIA-C-COM for Previdia Compact). This data can be found in the software solution of the Previdia being configured, by going to the programming section of the module in the control panel.



2. The activation of the licence can be carried via e-mail or web.brower.

**Via e-mail:** send an e-mail to [service-previdia@inim.biz](mailto:service-previdia@inim.biz) containing the numbers previously indicated. You will receive an e-mail containing a file block which corresponds to the actual licence, required to block BACnet functionality.

**Via web:** by connecting to the [service-previdia.inimcloud.com](http://service-previdia.inimcloud.com) website it is possible to request the activation of a BACnet licence. After providing the previously mentioned data, the website will send you a file which corresponds to the actual licence.

3. After receiving the block file you must go back to the software solution associated with the control panel you are configuring. In the LAN module programming section you must go to the "Settings" subsection and enable the "Enable BACnet" option *[C]*.

4. Enter the following data in the fields below *[D]*, for communication with the provider:

- BACnet device name
- BACnet device ID
- Password BACnet

5. Go to the "BACnet" subsection *[E]*. This section provides the **Load licence file** button which allows you to inform the software of the location of the received file inside the computer.

6. Clicking on the **Activate licence** button, sends the licence to the LAN module.

Following the activation of the licence it is possible to perform the integration of the Previdia system using the BACnet protocol.



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PREVIDIA

System > Control panel xyz > IFMLAN

Serial No. SNSNSNSN

IP 192.100.1.100

Netmask 255.255.255.0

Gateway 192.100.1.200

DNS server 192.100.1.300

Time zone Europe

Enable Silence via web  Enable reset via web

Enable SSL

Communication port 6001

Web server port 80

Read control panel status via IP

Enable BACNET

Name of the device Control panel BACNET

ID device XYZ

Password pass

MAIL SETTINGS

DYNAMIC DNS SETTINGS

NTP SERVER SETTINGS

SIA-IP PROTOCOL SETTINGS

WEB SERVER SETTINGS

ESPA444 SETTINGS

SLOOP LOG

SMART484IN

### 3.2.3 BACnet objects

Following are the BACnet objects made available by Previdia and their essential features. For licencing purposes, each of the objects belonging to the typology listed below constitutes a "point".

- Life Safety Point
- Binary Input
- Binary Output
- Life Safety Zone

#### Life Safety Point

The "life safety point" comprises objects that represent the status of a specific point included in the following:

- Loop point
- I/O channel (on board or as an accessory module)
- Extinction channel (only one point for each module in the case of IFMEXT module)

The status of each point is characterized by a defined list of values (stand-by, alarm, fault, etc.).

It is not possible to interact with a life safety point, change its status or bypass it.

#### Life Safety Zone

The "life safety zone" comprises objects that indicate the status of a zone. Therefore, they can be associated with the zones of the control panel that are linked to points.

It is not possible to interact with a life safety zone change its status or bypass it.

#### Binary Output

This object represents the status of any of the control panel outputs.

It is possible to change the status through the BACnet protocol. The "Binary output" objects of the Previdia control panel are the:

- Loop point
- I/O channel (on board or as an accessory module)
- Relay output (on board or as an accessory module)
- Actions on control panel

The actions on the control panel allow you to interact with the system. These are actions such as "silence sounders", "rearm control panel" or "investigate".

### Binary Input

These objects represent the status of any of the control panel inputs, therefore, not is possible to view the status but not set it. On the Previdia control panel they are used for the viewing of some control panel conditions.

- Alarm
- Pre-alarm
- Fault
- Disable
- Night mode
- Sounder silenced
- Investigate

### 3.2.4 Creation of BACnet points via software

To create BACnet points it is necessary to open the software, load the Hornet+ control panel software solution concerned, access the respective page for programming a LAN module and, finally, access the "BACnet" section.

This section provides the tools for the creation of life safety points. The other three sections ("Life safety zone", "Binary input" and "Binary output") function in the same way.

1. Select the control-panel point typology by means of the appropriate check boxes with dropdown menus [A]. In the section below [B] a list of points that correspond to the selection made will appear.
2. From the list select or deselect the BACnet points you wish to create.
3. Click on **Add** [C]. From this moment on, the selected points will be shown in the "Life safety point" list [D]. The points in this section can be removed from the list by simply unticking the corresponding boxes.
4. Click on the **Write** button [E] to send the programming to the control panel.

This procedure is valid for all BACnet point typologies.

The screenshot shows the PREVIDIA software interface for configuring BACNET points. The top navigation bar includes tabs for SETTINGS, CONTACTS, ACTIONS, CAMERA, BACNET, EVAC, GRAPHIC MAPS, and CLOUD. The main content area is titled "System > Control panel xyz > IFMLAN" and features a dropdown menu for "Control panel" set to "Control panel xyz". Below this are fields for "ID device" (IFM2L) and "Module" (IFM2Lx). A table of points is displayed, with columns for Point, Label, and Index. A "LIFE SAFETY POINTS" table is also visible, showing a list of points with their respective labels and indices. Red callout boxes A through F highlight specific UI elements and actions: A points to the BACNET tab, B to the BINARY INPUT section, C to the "Add" button, D to the "LIFE SAFETY POINTS" table, E to the "Write" button, and F to the "LIFE SAFETY POINTS" table.

Point	Label	Index
Control panel xyz Room 1	Room 1	1
Control panel xyz Room 2	Room 2	2
Control panel xyz Room 3	Room 3	3
Control panel xyz Room 4	Room 4	4
Control panel xyz Room 5	Room 5	5
Control panel xyz Room 6	Room 6	6

Point	Label	Index
Centrale xyz	Office 1	1
Control panel xyz	Office 2	2
Control panel xyz	Office 3	3
Control panel xyz	Office 4	4
Control panel xyz	Office 5	5
Control panel xyz	Office 6	6
Control panel xyz	Room 1	7
Control panel xyz	Room 2	8
Control panel xyz	Room 3	9
Control panel xyz	Room 4	10
Control panel xyz	Room 5	11
Control panel xyz	Room 6	12

### 3.3 SmartLook Software

The Previdia control panels can be supervised through the SmartLook software program created by Inim Electronics.

The SmartLook program is capable of enrolling the elements installed on the system either by reading the control panel directly or through the importation of data from the configuration software. At this point all that is necessary is to provide the graphic maps with image files and drag the icons of the objects installed on the system onto them.



SmartLook uses Modbus over TCP/IP to communicate with the control panel (refer to *paragraph 3.1 Modbus RTU and Modbus over TCP/IP*). During the configuration phase, SmartLook asks for the addresses of Previdia control panels on the Modbus and HorNet+ or IDANet networks.

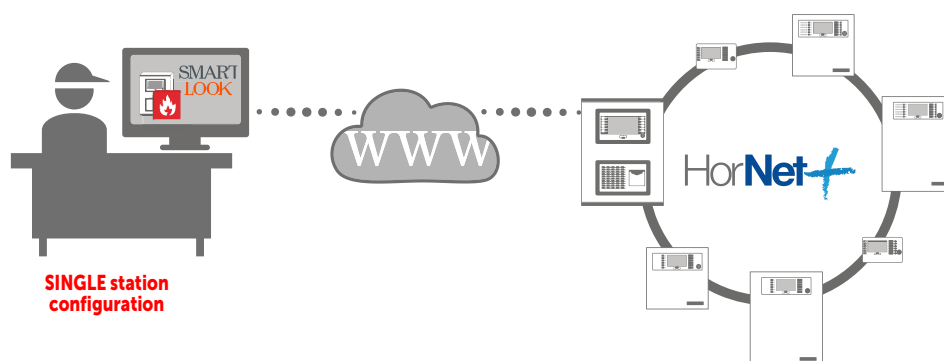
**Note:** *The address of a control panel on Modbus must coincide with that on the network.*

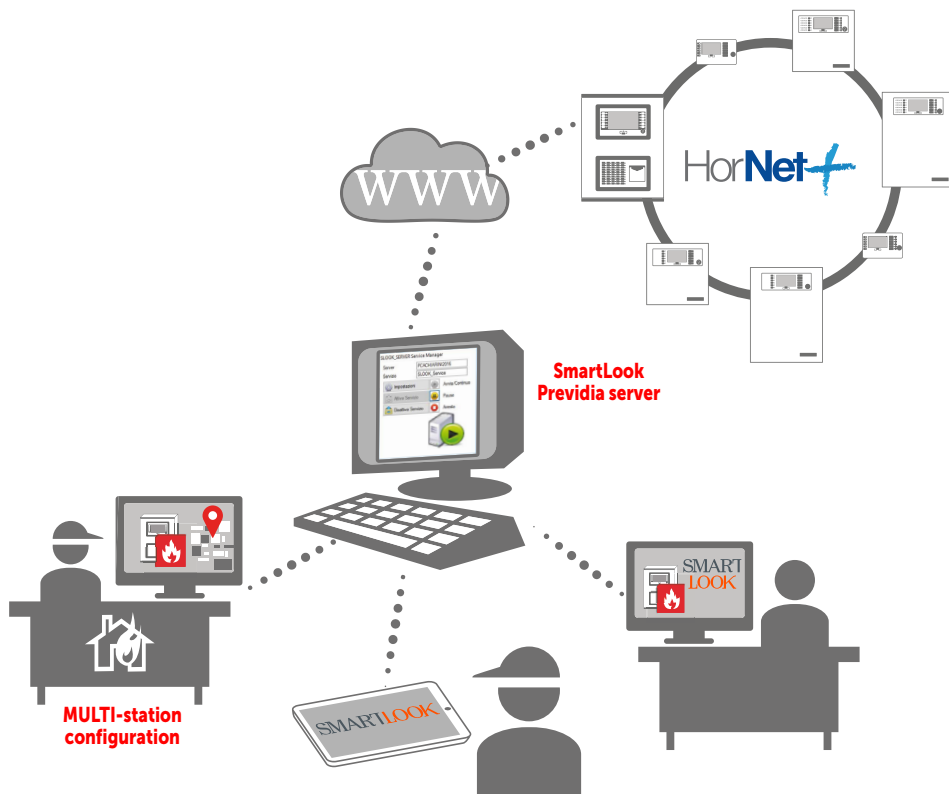
For further information refer to the SmartLook software manual.

### 3.4 SmartLook Previdia server

The "SmartLook Previdia server" software allows the supervision of a fire detection and alarm system created using Previdia series control panels by several PCs, up to a maximum of 10, on which the SmartLook software is installed.

The SmartLook software can operate as a client of the Previdia SmartLook server. In such cases, it is necessary to indicate in the SmartLook settings the address of the server rather than the address of a control panel as the connection address.





For further information, refer to the documentation relating to the SmartLook monitoring software.

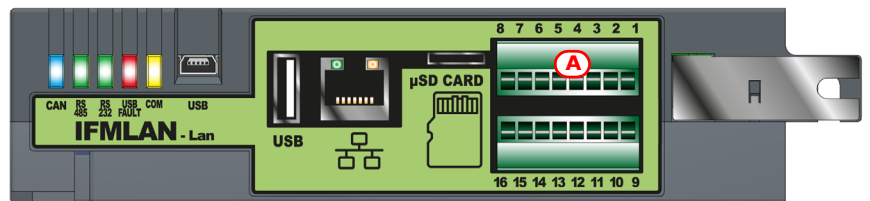
# Chapter 4

## Pager systems

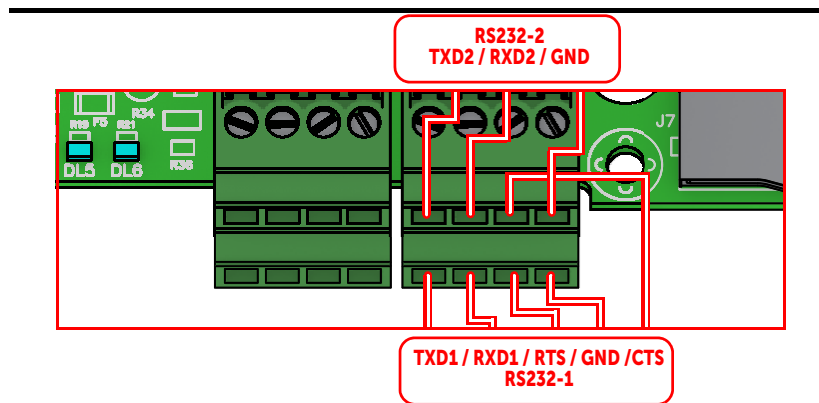
ESPA 4.4.4 is a standard protocol for the interconnection of paging systems, PABXs and automatic fire-detection systems. This protocol allows the exchange/sending of text messages between mobile devices such as pagers, cordless telephones, etc.

ESPA 4.4.4 protocol is implemented for Previdia Max and Ultra control panels within the IFMLAN module, through the RS232 communication port [A].

Serial	Terminal	
RS232	1	Programmable ancillary power output
	2	RS232 TX
	3	RS232 RX
	4	RS232 RTS
	5	RS232 CTS
	6	Negative (GND, $\ominus$ )
	7, 8	Earth



For Previdia Compact control panels the ESPA 4.4.4 protocol is implemented inside the PREVIDIA-C-COM accessory module, through its two RS232 ports [B].



The protocol communication parameters can be configured through the Previdia control-panel configuration software. Access the module programming page, then in the "Settings" sub-section and click on "ESPA 4.4.4"

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**PREVIDIA**

System > Control panel xyz > IFMLAN

SETTINGS CONTACTS ACTIONS CAMERA BACNET EVAC GRAPHIC MAPS CLOUD

Serial No. SNSNSNSN

IP

Netmask

Gateway

DNS server

Time zone

Enable Silence via web  Enable reset via web

Enable SSL

Communication port

Web server port

Read control panel status via IP

- ▶ -BACNET SETTINGS
- ▶ -MAIL SETTINGS
- ▶ -DYNAMIC DNS SETTINGS
- ▶ -NTP SERVER SETTINGS
- ▶ -SIA-IP PROTOCOL SETTINGS
- ▶ -WEB SERVER SETTINGS
- ▼ -ESPA444 SETTINGS
  - Serial port
  - Parity
  - Stop bit
  - Data bit
  - Bits per second
  - Address
  - Microphone bases address
  - Hand shake 
    - Add zone label
    - Add control panel label
    - Master
    - Delete event label
  - Supervision type
- ▶ -SLOOP LOG
- ▶ -SMART484IN

Refer to the Previdia programming manual for further details.

# Chapter 5

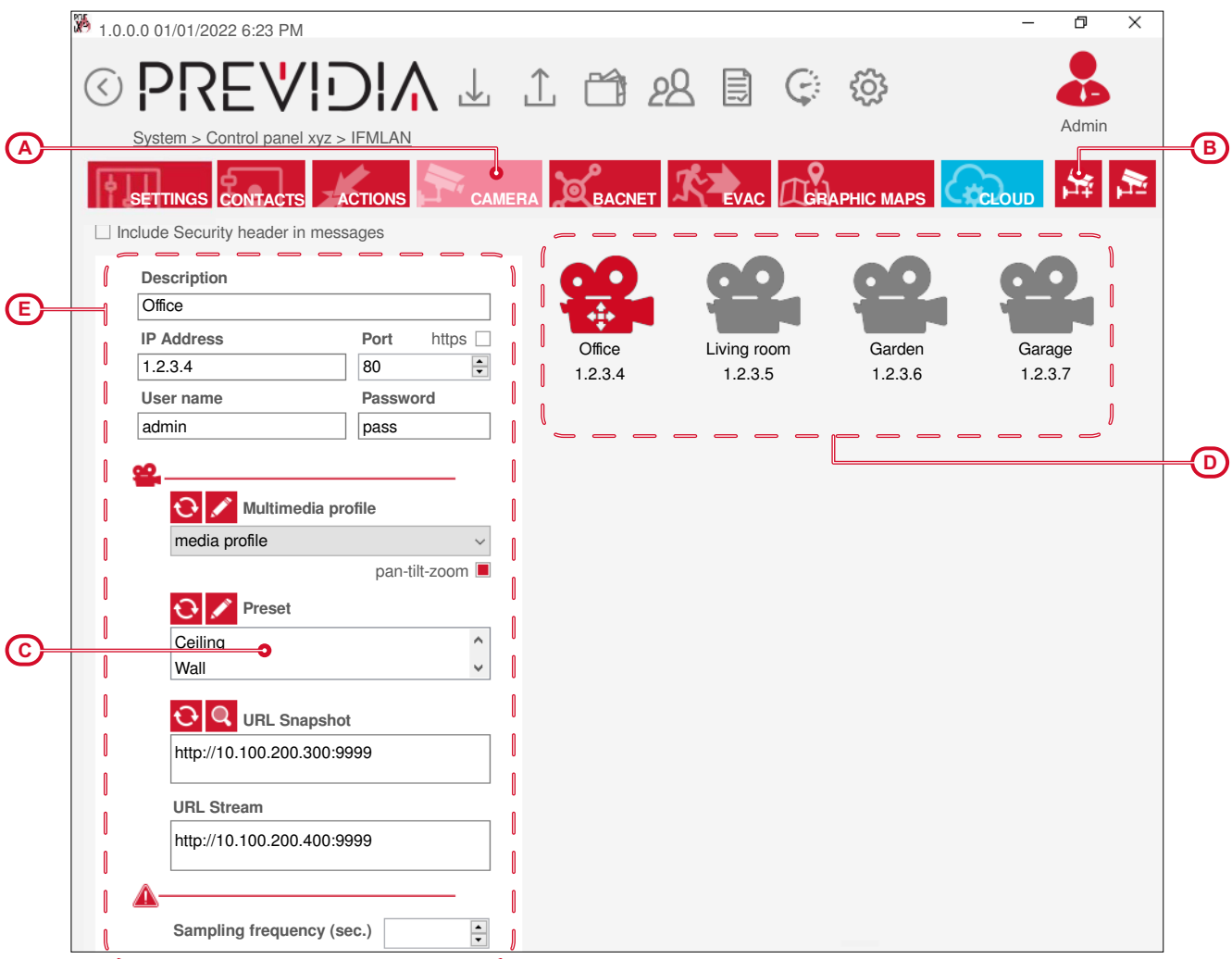
## Video verification

Control panels from the Previdia series are capable of capturing images from IP cameras equipped with ONVIF. These images can be displayed on screens or forwarded from a remote location via e-mail to provide the end-user with a clear understanding of what is happening in the environment signalling the alarm.

The video verification function is implemented inside the IFMLAN module for Previdia Max and Ultra control panels, and inside the PREVIDIA-C-COM-LAN module for Previdia Compact control panels. Using the configuration software it is possible to define the list of IP cameras (up to 200) with which the Previdia system is to interact.

Access the module programming page, then the "Onvif camera" sub-section [A].

To add the cameras to the configuration simply click-on the **Add** button[B]. Each camera will acquire the various available "preset" parameters [C].

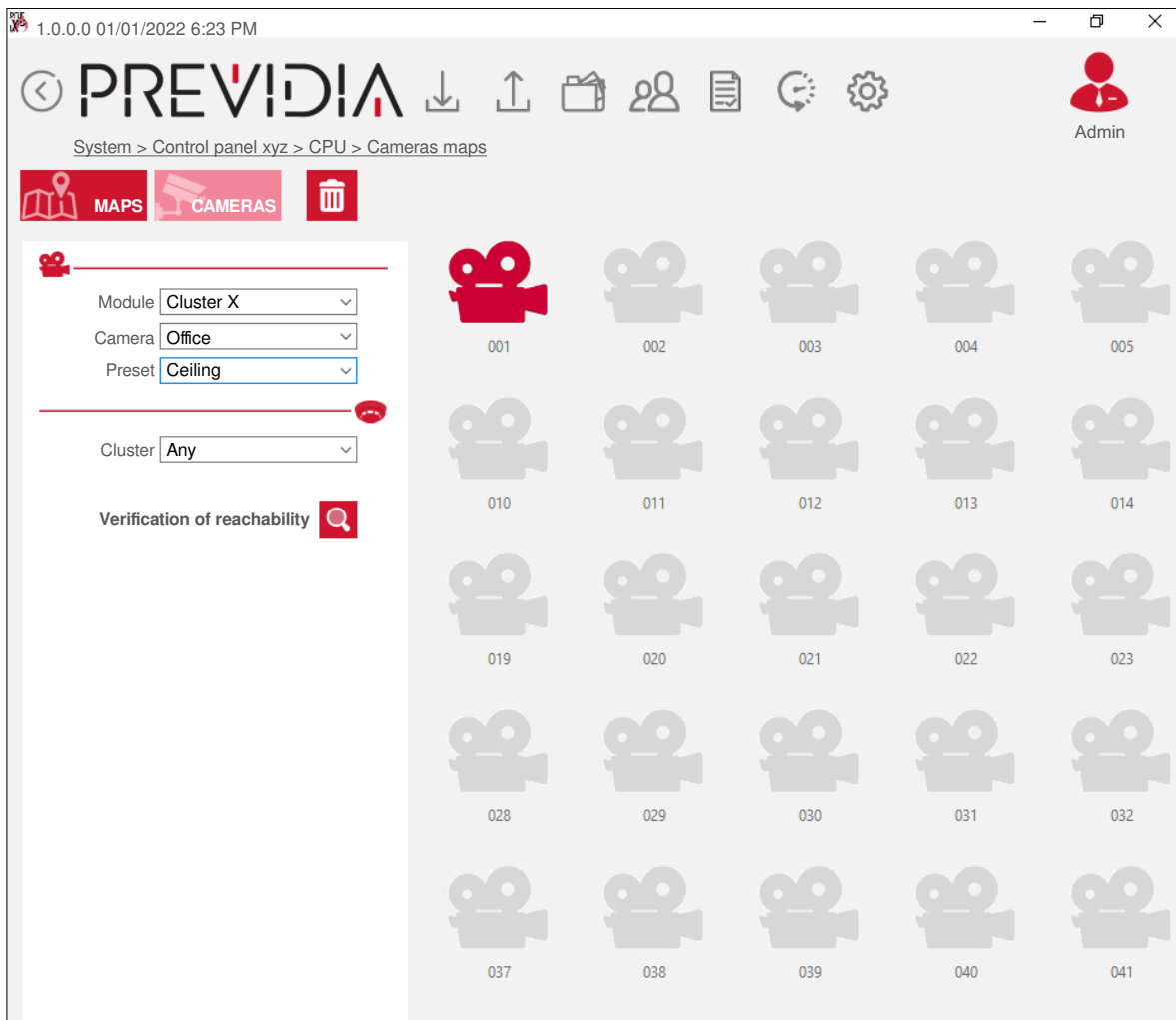


The section on the right [D] contains a list of all the configured IP cameras, while the section on the left [E] contains the parameters of the selected camera.

Once the IP camera list has been defined, the configuration software will allow you to establish a series of presettings that permit the identification of the specific IP camera and the correct preset in accordance with each event.

To program the presettings go to the programming section of the graphic maps. To reach the IP Camera section you must first access the programming section of the FPMCPU front plate module, click-on the "Graphic maps" button then access the "Cameras" sub-section.





Refer to the Previdia programming manual for further details.

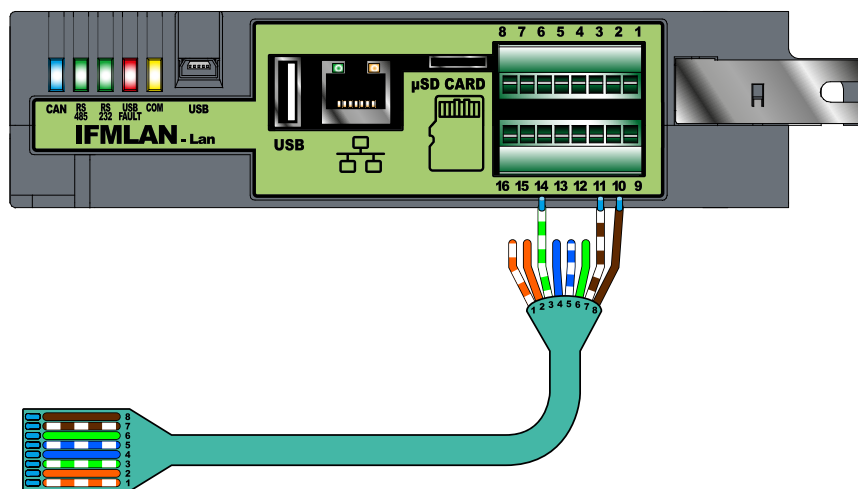
# Chapter 6

## Voice Evac-systems

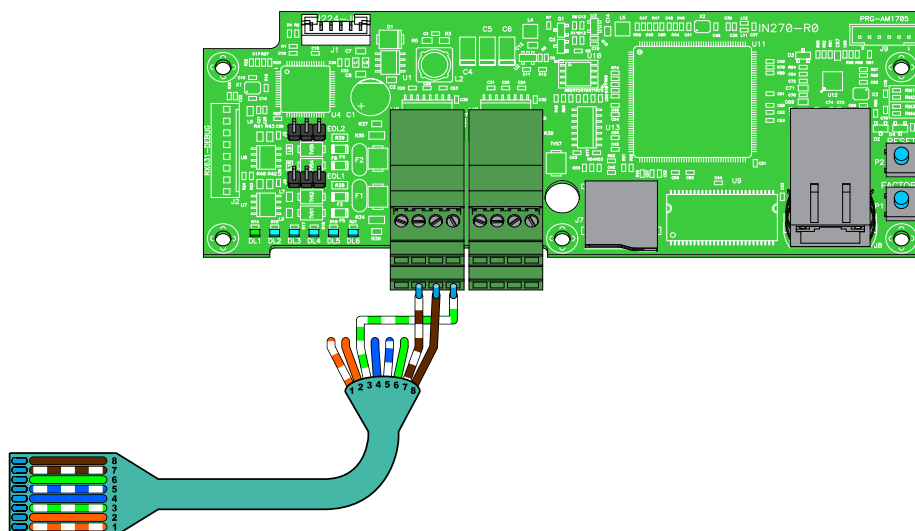
Previdia control panels can be interconnected with the following voice evacuation systems:

- Paso

The voice evacuation systems made by Paso can be connected to the IFMLAN module through the RS485 port.



PREVIDIA-C-COM has two RS485 ports, both usable with a connection such as the following:



- Tutondo

Via TCP-IP connection, the voice evacuation systems produced by Tutondo can be connected to the IFMLAN module, for the Previdia Max control panel, and to the PREVIDIA-C-COM-LAN module, for the Previdia Compact control panel.

### 6.1 Voice Evac configuration

Once the control panel has been connected to the voice evacuation system, the configuration software will allow you to configure each speaker line (evacuation zone) as an output capable of activating warning and evacuation messages.

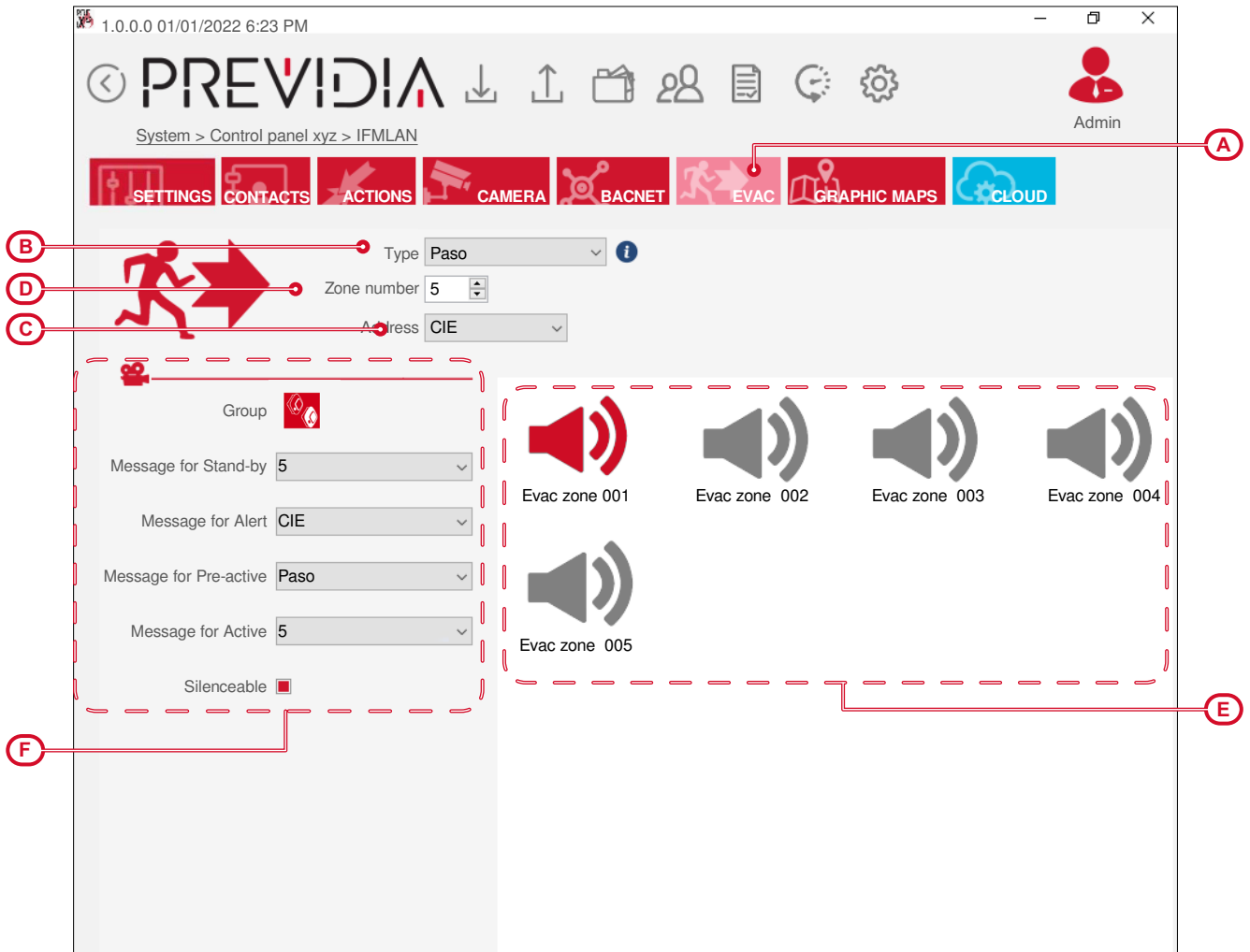
Access the page relative to the programming of the IFMLAN module, then access the "Evac" sub-section [A].

1. Select the typology of voice-evacuation system [B].
2. Indicate the address of the Previdia control panel on the selected evacuation system [C]:

- for "Paso" it is necessary to indicate the address on the RS485 connection BUS
  - for "Tutondo" it is necessary to indicate the IP address and the port
3. Indicate the number of evacuation zones (speaker lines) in the "Number of zones" box [D].

An icon will be added to the list at the bottom of the section for each added zone. For "Tutondo", it is necessary to add "End evacuation" to all zones, a message common to all zones.

4. Select the individual evacuation zone from the list [E] and program the parameters [F].





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