

AxxonSoft

Configuration and Operation Manual for the  
**Unipos**  
Integration Module

Version 1.1

Moscow 2010



# Contents

<b>CONTENTS</b> .....	<b>2</b>
<b>1 LIST OF TERMS</b> .....	<b>4</b>
<b>2 INTRODUCTION</b> .....	<b>6</b>
2.1 Document purpose.....	6
2.2 Purpose of the Intellect fire and security alarm subsystem .....	6
2.3 General information on the Unipos integration module.....	6
<b>3 CONFIGURATION OF THE UNIPOS INTEGRATION MODULE</b> .....	<b>7</b>
3.1 Procedure for configuring of the Unipos integration module .....	7
3.2 Configuring the parameters of the Unipos FSA.....	7
3.3 Configuring the parameters of the IFS7002 Fire Control Panels.....	8
3.3.1 The procedure for configuring the parameters of the IFS7002 Fire Control Panels .....	9
3.3.2 Setting up the configuration of the FCP .....	10
3.3.3 Modes of operation of the IFS7002 Fire Control Panel .....	11
3.3.4 Configuring the system parameters of the IFS7002 Fire Control Panels.....	12
3.3.5 Configuring the CAN network stations list .....	12
3.3.6 Configuring the maximum waiting time of the IFS7002 FCP for the messages from the FSA components 15	
3.3.7 Configuring polling of the CAN network stations.....	16
3.3.8 Configuring the RS interface parameters for the IFS7002 Fire Control Panel .....	17
3.4 Configuring the SLCs/Loops.....	18
3.5 Configuring the addressable detectors .....	19
3.6 Configuring the addressable modules for connection of actuators.....	21
3.6.1 Configuring the FD7203 addressable module .....	21
3.6.1.1 Configure the FD7203 addressable module as follows:.....	21
3.6.1.2 Configuring the FD7203 addressable module .....	22
3.6.1.3 Configuring inputs of the FD7203 addressable module.....	22
3.6.1.4 Configuring outputs of the FD7203 addressable module .....	25
3.6.2 Configuring the FD7203C addressable module .....	26
3.6.3 Configuring the FD7203R addressable module .....	28
3.6.3.1 Procedure for configuring the FD7203R addressable module .....	28
3.6.3.2 Configuring parameters of the FD7203R addressable module .....	28
3.6.3.3 Configuring outputs of the FD7203R addressable module .....	29
3.6.4 Configuring the FD7204 addressable notification appliance.....	30
3.7 Configuring zones.....	31
3.7.1 Configuring procedure for zones .....	31
3.7.2 Configuring parameters of the zones.....	32

3.7.3	Configuring interaction of the network FCPs.....	33
3.7.4	How to include the addressable fire alarm boxes (detectors) into a zone.....	34
3.7.5	Configuring the outputs that will be employed under Fire Condition 1 in a zone. ....	35
3.7.6	Configuring the outputs that will be employed under Fire Condition 2 in a zone. ....	36
<b>4</b>	<b>OPERATION OF THE UNIPOS INTEGRATION MODULE. ....</b>	<b>38</b>
<b>4.1</b>	<b>General information on the Unipos integration module.....</b>	<b>38</b>
<b>4.2</b>	<b>How to control the Unipos FSA from the Map interface window .....</b>	<b>38</b>

## 1 List of terms

**ADDRESSABLE DEVICE** – a device that has its own address and is controlled by a Signaling Line Circuit/Loop (further on SLC or Loop). **ADDRESSABLE DEVICES** are usually automatic or manual fire (smoke) detectors, adapters or actuators.

**PHASE 1–2 TRANSITION TIME** – time set for an action or procedure e.g. for a check-up on fire detection if **FIRST-DEGREE FIRE** is detected in a **FIRE DETECTION ZONE**.

**INSPECTION TIME** – time set for a check-up if **FIRE CONDITION STAGE I** is detected in a **FIRE DETECTION ZONE**.

**INITIALIZATION** – the process of assigning addresses to **ADDRESSABLE DEVICES** in a **FIRE ALARM LINE/LOOP**.

**CONTROLLABLE OUTPUTS** – relay potential outputs, which allow for monitoring of the serviceability of the connecting wires between the control panel and the external devices.

**FIRE ALARM LINE/LOOP** – addressable devices such as adapters, actuators and fire detectors (manual and automatic), physically connected by the means of two-wire connection.

**FIRE DETECTION ZONE, ZONE** – a random group of addresses within the addressable fire alarm system, logically united. It is important to make a difference between the physical term **ZONE**, used in conventional fire alarm systems, where terms **ZONE** and **LINE** have equal meaning, and between the logical term **ZONE** used in addressable fire alarm systems. In the addressable fire alarm systems zone stands for addressable points, logically united. Their allocation within the protected site and the numbers of the fire alarm lines they have been integrated in are not of importance. For example, fire detectors from Line 1 and from Line 16 can be united in one zone.

**FIRE CONDITION STAGE I** – an automatic fire detector has been activated and the time for fire condition stage I (**STAGE 1–2 TRANSITION TIME**) has not expired yet. This stage will be ignored if the FCP is in **NIGHT MODE**.

**FIRE CONDITION STAGE II** – is triggered if:

1. **STAGE 1–2 TRANSITION TIME** expired;
2. manual fire detectors were actuated;
3. manual and/or automatic fire detectors were actuated while the FCP was in **NIGHT MODE**;

**DAY MODE** – the mode of IFS7002 FCP operation where **FIRE CONDITION STAGE I** and **FIRE CONDITION STAGE II** are triggered by fire detectors.

**NIGHT MODE** – the mode of IFS7002 FCP operation where **FIRE CONDITION STAGE II** is automatically triggered by fire detectors while **FIRE CONDITION STAGE I** is ignored.

**OVERLAP MODE** – when a **ZONE** is set to this mode, 2 or more fire detectors in the **ZONE** should be actuated for the FCP to go into **FIRE CONDITION STAGE I**.

**RELAY OUTPUTS** – relay non-potential switching outputs, provided for external devices control, which do not allow for monitoring of the serviceability of the connecting wires between the control panel and the external devices.

POWER CIRCUIT – two-wire connection provided to power external devices which can not sufficiently powered by the parent SLCs/Loops.

FCP – Interactive Fire Control Panel IFS7002 designed to monitor and control addressable devices such as detectors, adapters and external devices/actuators.

## 2 Introduction

### 2.1 Document purpose

Configuration and operation manual for the Unipos integration module is an informational reference aid intended for use by configuration specialists and operators of the Unipos module. This module is part of the fire and security alarm subsystem implemented with the Intellect software package.

This Guide contains the following materials:

1. general information on the Unipos integration module;
2. configuration of the Unipos integration module;
3. operation of the Unipos integration module.

### 2.2 Purpose of the Intellect fire and security alarm subsystem

The Intellect fire and security alarm (FSA) subsystem performs the following functions:

1. processes data received from security panels, alarm sensors and other sensors and alarm devices;
2. manages executive devices such as audio and lighting notification, locking and unlocking of gates, etc.

The FSA subsystem consists of hardware and software modules. In a large-scale FSA subsystem, the hardware portion consists of a third-party FSA system integrated into the Intellect software system. The software portion of the FSA subsystem consists of integration modules that configure interaction between Intellect and the hardware portion.

*Note. Unipos integration module also provides for hardware configuration.*

### 2.3 General information on the Unipos integration module

The Unipos integration module is a component of the Intellect-based FSA subsystem that enables to:

1. configure Unipos FSA;
2. provide for interaction between Unipos FSA and Intellect (monitoring, control).

*Note. For more information on the Unipos FSA system, refer to the official documentation of the Unipos FSA.*

The Unipos integration module can be configured once the following steps are completed:

1. Install Unipos hardware at the facility.
2. Initialize the addressable devices integrated into SCLs of the Unipos FSA (please refer to the Unipos FSA documentation).

## 3 Configuration of the Unipos integration module

### 3.1 Procedure for configuring of the Unipos integration module

The Unipos integration module is configured through the following steps:

1. Set the parameters of the Unipos FSA.
2. Set the parameters of the IFS7002 Fire Control Panels.
3. Set up the SLCs.
4. Set up the addressable detectors.
5. Set up the addressable modules of external devices/actuators.
6. Configure the zones.

### 3.2 Configuring the parameters of the Unipos FSA

To set the parameters for the Unipos FSA go to the settings panel of the “Unipos Fire Control Panel” object. This object is created from the “Computer” object on the “Hardware” tab of the “System settings” dialog box (Fig. 3.2—1).

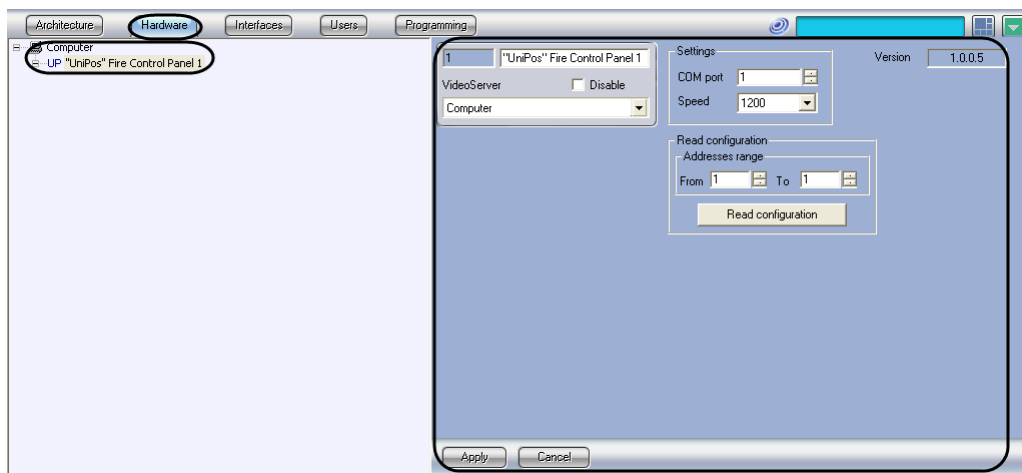
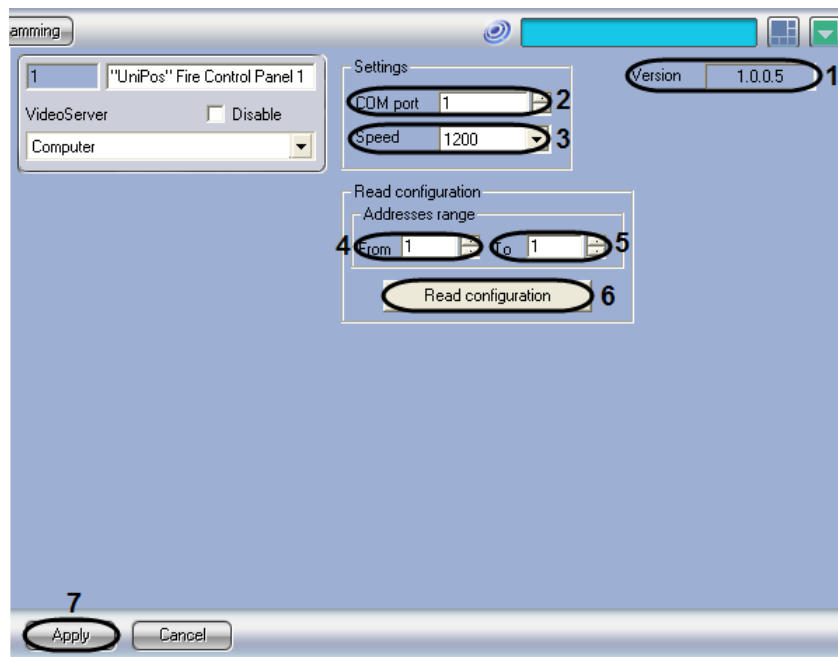


Fig. 3.2—1 The “Unipos Fire Control Panel” object

To configure the parameters of the Unipos FSA do the following:

1. Go to the settings panel of the “UniPos Fire Control Panel” object (Fig. 3.2—2).



**Fig. 3.2—2 Configuring the parameters of the Unipos FSA**

*Note. The “Version” field shows the version of the Unipos Integration Module (see Fig. 3.2—2, 1).*

2. In the “COM port” field, enter the number of the COM port utilised for connection to the Unipos FSA via the selected IFS7002 FCP (see Fig. 3.2—2, 2).
3. From the “Speed” drop-down list, select the data exchange rate between the Intellect Server and the IFS7002 FCP over the RS232 protocol (see Fig. 3.2—2, 3).
4. Read the configuration of the Unipos FSA pre-initialised. Do this by entering the addresses range of the Unipos FSA components into the “From” and “To” fields (see Fig. 3.2—2, 4-5).
5. Click the “Read configuration” button (see Fig. 3.2—2, 6).
6. This will result in creation and configuration of the Intellect software objects which will relate to the Unipos FSA objects within the set addresses range.
7. To save changes, click the “Apply” button (see Fig. 3.2—2, 7).

Configuring the parameters of the Unipos FSA is finished.

### **3.3 Configuring the parameters of the IFS7002 Fire Control Panels**

The IFS7002 Fire Control Panel is designed to control and monitor addressable automatic and manual fire detectors. It also controls addressable external devices/actuators integrated into its SLC(s). The following outputs of the FCP are used to connect to the external devices:

1. 2 controllable outputs;
2. 1 relay output.

The following protocols are used to interact with the external devices:

1. CAN;

## 2. RS232.

*Note. For more information on the data exchange capabilities of the Unipos FSA system, please refer to the official documentation of the Unipos FSA.*

### 3.3.1 The procedure for configuring the parameters of the IFS7002 Fire Control Panels

To set the parameters for the IFS7002 FCP that is connected into a Unipos FSA go to the settings panel of the “IFS7002” object. This object is created from the “Unipos Fire Control Panel” object on the “Hardware” tab of the “System settings” dialog box (Fig. 3.3—1).

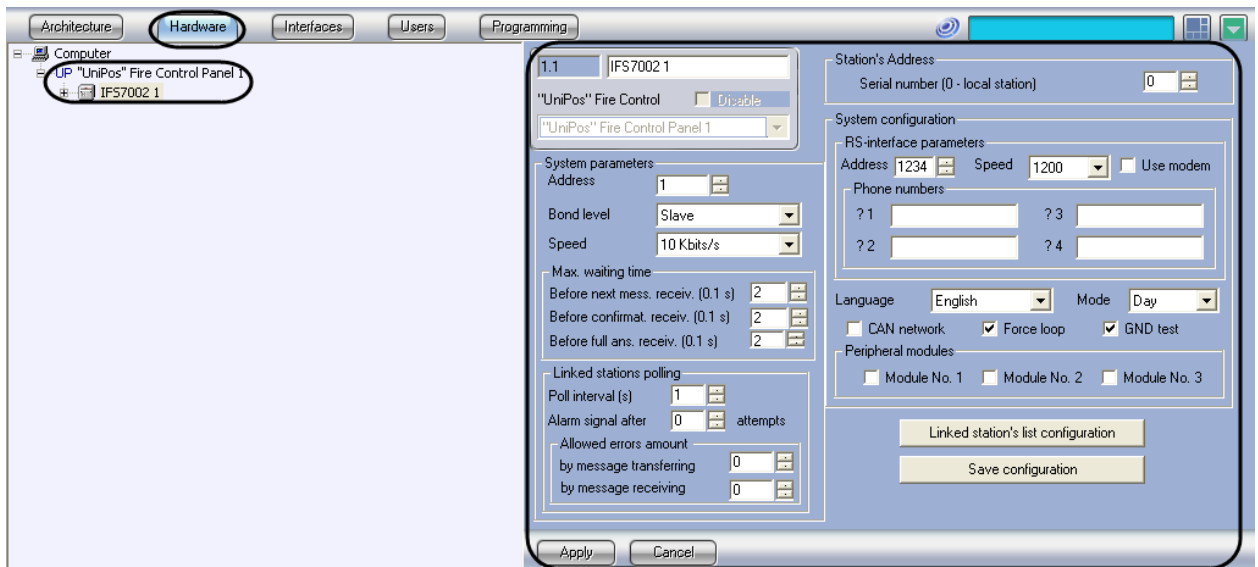


Fig. 3.3—1 The “IFS7002” object

Once the configuration of the Unipos FSA is read (see the “Configuring the parameters of the Unipos FSA” section), the “IFS7002” objects are registered and configured automatically. You can also configure the IFS7002 FCP on the settings panel of the “IFS7002” object.

The configuring procedure for the parameters of the IFS7002 Fire Control Panels is following:

1. Set up the configuration of the FCP (here and under on the screenshots referred to Station).
2. Select the operation mode of the FCP.
3. Set the system parameters of the FCP.
4. Configure the CAN network station's list.
5. Set the max. waiting time for messages from the linked stations (components if the Intellect Unipos integrated system).
6. Configure polling of the CAN network stations.
7. Set the parameters for the RS interface of the IFS7002 Fire Control Panel.
8. Repeat steps 1 to 8 for all required IFS7002 stations (FCPs).

**Warning!**

Clicking the “Apply” buttons on these settings panels of the Unipos FSA will result in saving the settings into the Intellect internal DB. To apply the settings to the FCP you must click the “Save Configuration” button (see Fig. 3.3—1).

It may take a few minutes while the settings are applied at the FCP. Therefore you should first click Apply to save the changes into the Intellect DB and then click Save Configuration to apply the settings at the station.

### 3.3.2 Setting up the configuration of the FCP

With the IFS7002 FCP you should configure the following:

1. the UI language;
2. enable/disable CAN interface support;
3. enable/disable the power circuit;
4. enable/disable the grounding check of the wiring;
5. flag any additional modules connected to the FCP.

Configure the IFS7002 FCP through the following steps:

1. Go to the settings panel of the “IFS7002” object (Fig. 3.3—2).

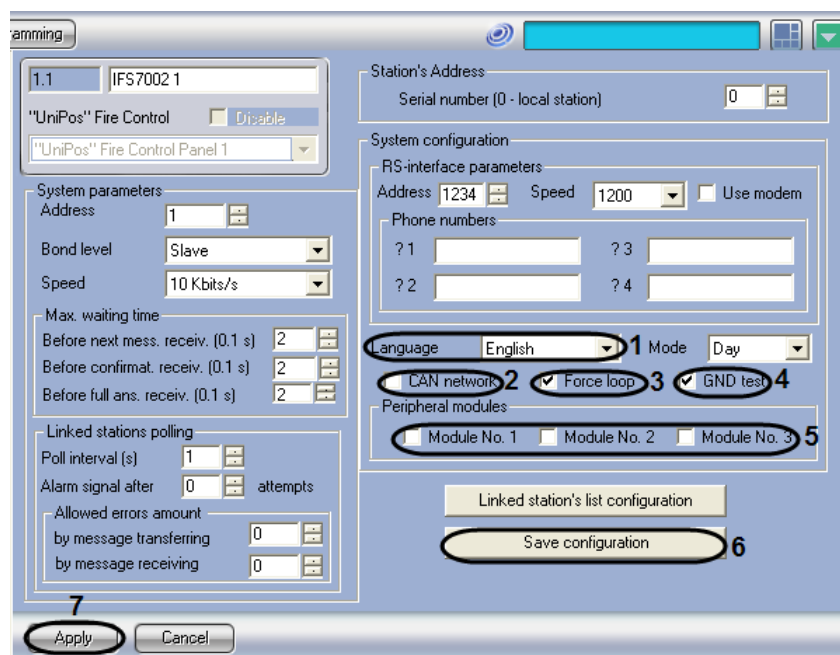


Fig. 3.3—2 Setting up the configuration of the IFS7002 Fire Control Panel

2. From the “Language” drop-down list select the language of the UI for the “IFS7002” FCP (see Fig. 3.3—2, 1).
3. To enable support of the CAN interface check the “CAN network” checkbox (see Fig. 3.3—2, 2).
4. To enable the integrated power circuit check the “Force loop” checkbox (see Fig. 3.3—2, 3).
5. To enable the grounding check of the wiring check the “GND test” checkbox (see Fig. 3.3—2, 4).

- To enable the integrated peripheral modules check the corresponding “Module №” checkbox (see Fig. 3.3—2, 5).

*Note. This setting applies if you have at least 1 module connected to the FCP.*

- To apply the settings to the FCP you must click the “Save Configuration” button (see Fig. 3.3—2, 6).
- To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.3—2, 7).

Configuring the IFS7002 Fire Control Panel is completed.

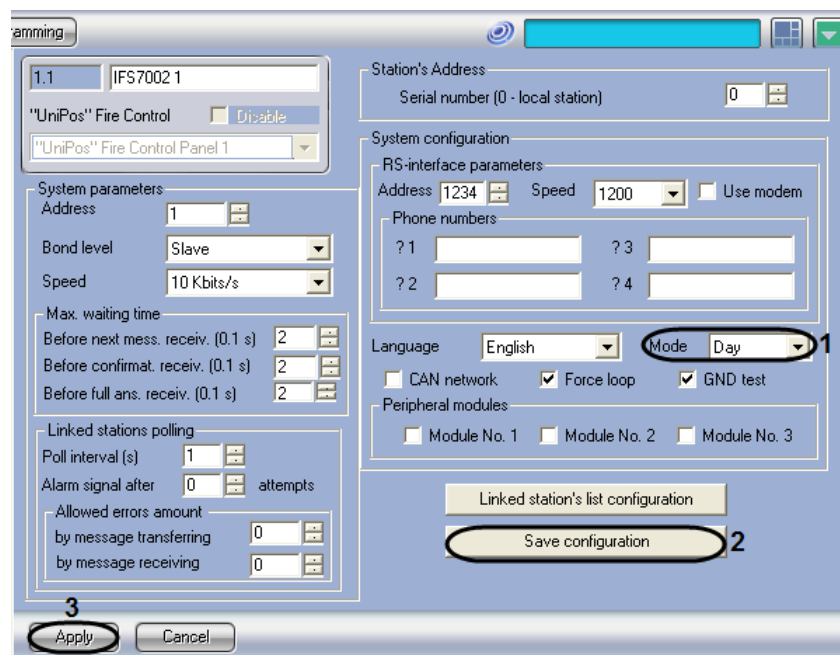
### 3.3.3 Modes of operation of the IFS7002 Fire Control Panel

The IFS7002 FCP operates in 2 modes:

- Day;
- Night.

To select the required mode, do the following:

- Go to the settings panel of the “IFS7002” object (Fig. 3.3—3).



**Fig. 3.3—3 Modes of operation of the IFS7002 Fire Control Panel**

- From the “Mode” drop-down list select the required mode of the “IFS7002” FCP operation (see Fig. 3.3—3, 1)
- To apply the settings to the FCP you must click the “Save Configuration” button (see Fig. 3.3—3, 2)
- To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.3—3, 3).

Setup of the mode of operation for the IFS7002 Fire Control Panel is completed.

### 3.3.4 Configuring the system parameters of the IFS7002 Fire Control Panels

Configure the system parameters of the IFS7002 FCP through the following steps:

1. Go to the settings panel of the “IFS7002” object (Fig. 3.3—4).

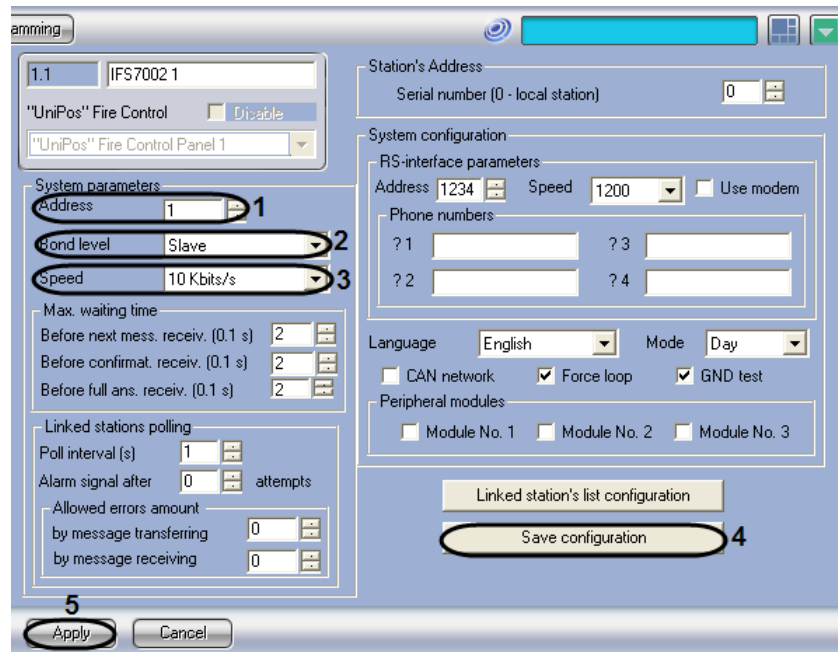


Fig. 3.3—4 Configuring the system parameters of the IFS7002 Fire Control Panels

2. Enter the CAN network address of the FCP into the “Address” field (see Fig. 3.3—4, 1).
3. From the “Bond level” drop-down list select the preferred communication level of the FCP in the CAN network of the parent Unipos FSA (see Fig. 3.3—4, 2).

*Note. The Master level can be assigned to only 1 FCP while the Slave level is assigned to all the rest FCPs.*

4. From the “Speed” drop-down list select the data exchange rate in the CAN network (see Fig. 3.3—4, 3).

*Note. The CAN network of the FCP includes all the addressable devices connected to fire alarm lines/loops of the FCP.*

5. To apply the settings to the FCP you must click the “Save Configuration” button (see Fig. 3.3—4, 4).
6. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.3—4, 5).

Configuring the system parameters of the IFS7002 Fire Control Panels is completed.

### 3.3.5 Configuring the CAN network stations list

Configure the CAN network IFS7002 stations list as follows:

*Note. You should configure the CAN network stations in relation to the base FCP which is linked with the Intellect server.*

1. Go to the settings panel of the “IFS7002” object (Fig. 3.3—5).

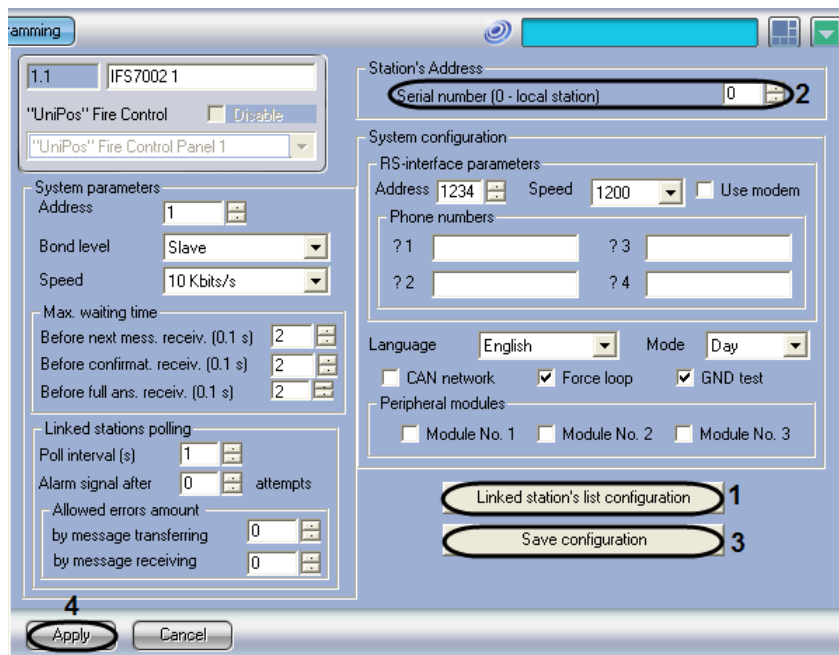


Fig. 3.3—5 Configuring the CAN network stations list

2. Click the “Linked station's list configuration” button (see Fig. 3.3—5, 1).
3. The “Linked station's list configuring” window opens (Fig. 3.3—6).

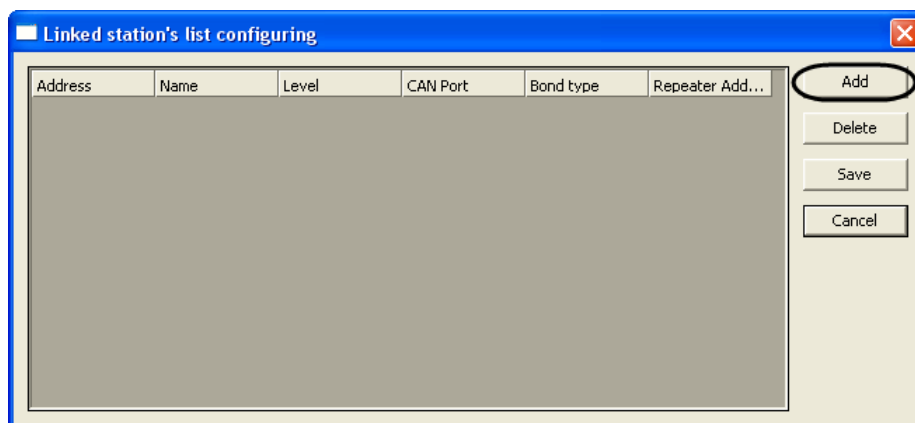


Fig. 3.3—6 The “Linked station's list configuring” window

4. To add an FCP to the linked station's list click “Add” button (see Fig. 3.3—6).
5. This will show a new row in the table which will display the parameters of the added station (Fig. 3.3—7, Table 3.3—1).

*Note. These parameters are mostly tentative and need adjusting.*

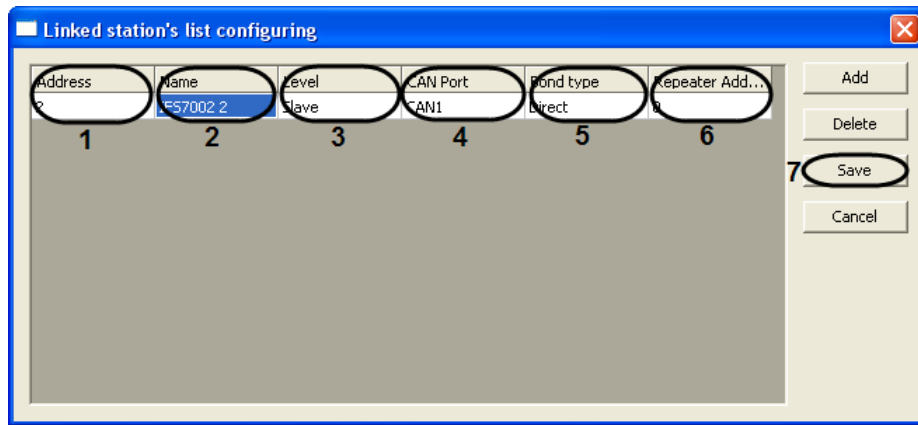


Fig. 3.3—7 The parameters of the remote stations

Table 3.3—1 The parameters of the remote stations

No	Parameters of the remote station	Parameter description	Value range
1	Address	Address of FCP in the CAN network of the Unipos FSA	Depends on the FCP configuration.
2	Name	Name of FCP in the CAN network of the Unipos FSA	Depends on the FCP configuration.
3	Level	Communication level of FCP in the CAN network of the Unipos FSA	Master level is assigned to only 1 FCP within the Unipos FSA.  Slave level is assigned to the rest FCPs within the Unipos FSA.  Depends on the FCP configuration.
4	CAN port	CAN port of the local FCP to connect to a remote FCP.	CAN1  CAN2
5	Communication mode	Bond type between the local and remote FCP in the CAN network	Direct - they are linked directly  Repeater - they are linked though a retranslating station.
6	Repeater Add.	The address of the FCP used as a repeater to link a local and remote stations. Use only when the Bond type is set to Repeater.	Depends on the repeater configuration.

6. Adjust the settings of the remote station to the relevant values (Fig. 3.3—7, Table 3.3—1).
7. Repeat steps 5 to 5 for all the required remote stations.

*Note.* To remove a FCP from the list, you should select any cell of the relevant row and click the “Delete” button (see Fig. 3.3—7).

8. To save changes in the linked stations list and close the “Linked station's list configuring” window, click the “Save” button (see Fig. 3.3—7, 7).

*Note.* To discard changes in the linked stations list and close the “Linked station's list configuring” window, click the “Cancel” button (see Fig. 3.3—7).

9. The “Linked station's list configuring” window will close.
10. Enter the station's address on the settings panel of the “IFS7002” object. You can do it by setting the required value into the “Serial number” field. If this station is utilised to connect the Unipos FSA and the Intellect server, enter 0 (see Fig. 3.3—5, 2).
11. To apply the settings to the FCP you must click the “Save Configuration” button (see Fig. 3.3—5, 3).
12. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.3—5, 4).

Configuring the list of linked IFS7002 FCPs is completed.

### 3.3.6 Configuring the maximum waiting time of the IFS7002 FCP for the messages from the FSA components

Set the max. waiting time for messages from the components of the Intellect Unipos integrated system:

**Warning! All the max. waiting time values are in 0.1 (tenths) seconds.**

1. Go to the settings panel of the “IFS7002” object (Fig. 3.3—8).

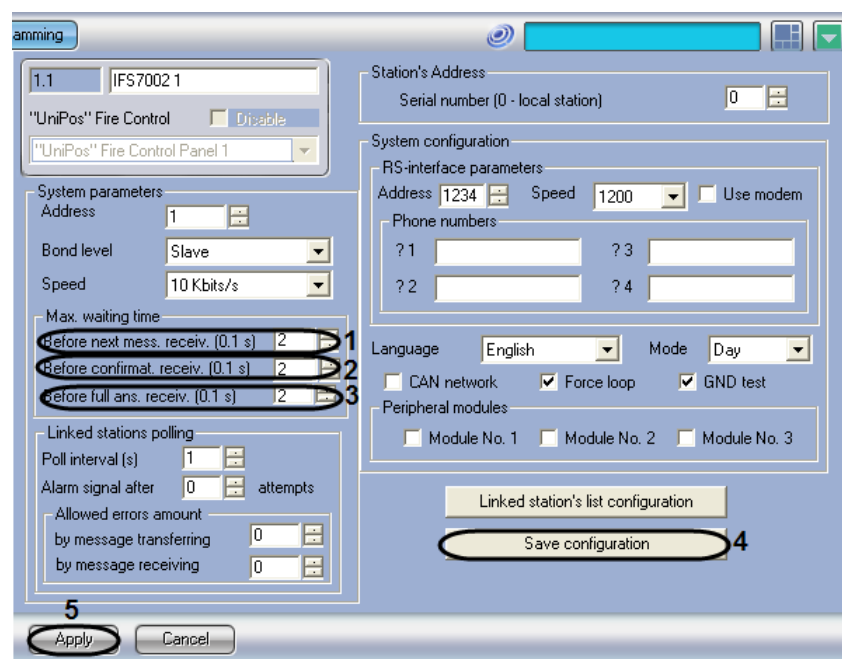


Fig. 3.3—8 Configuring the maximum waiting time for messages

2. Enter the max. waiting time of the FCP for the next bit of the message from a FSA system component into the “Before next mess. receiv.” field (see Fig. 3.3—8, 1).

*Note. This setting is for split messages.*

3. Enter the max. waiting time of the FCP for receipt confirmation from a FSA system component into the “Before confirmat. receiv.” field (see Fig. 3.3—8, 2).

*Note. This setting is for read-only messages (one-way communication).*

4. Enter the max. waiting time of the FCP for response from a FSA system component into the “Before full ans. receiv.” field (see Fig. 3.3—8, 3).

*Note. This setting is for messages that require a response (two-way communication).*

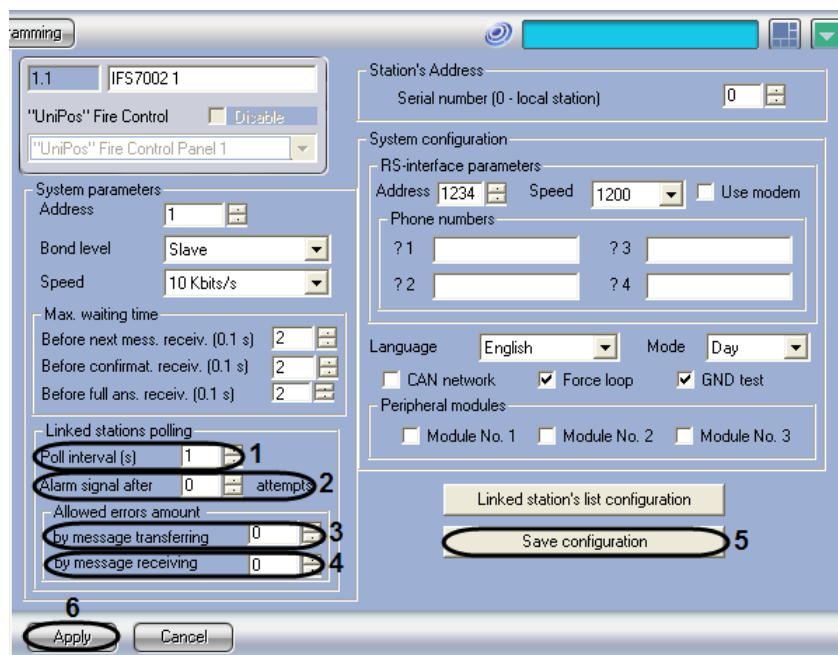
5. To apply the settings to the FCP you must click the “Save Configuration” button (see Fig. 3.3—8, 4).
6. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.3—8, 5).

Configuring the maximum waiting time of the IFS7002 FCP for the messages from the FSA components is completed.

### 3.3.7 Configuring polling of the CAN network stations

To configure polling of the CAN network stations you should:

1. Go to the settings panel of the “IFS7002” object (Fig. 3.3—9).



**Fig. 3.3—9 Configuring polling of the CAN network stations**

2. Enter the time span between 2 sequential connection checks that the FCP runs on the linked stations into the “Poll interval” field. This value is in seconds (see Fig. 3.3—9, 1).
3. Enter the number of successful connection checks that the FCP runs on the CAN network followed by a short alarm signal into the “Alarm signal after...attempts” field. If you enter 0, a successful check is not followed by an alarm. If you enter N, every N successful checks are followed by an alarm (see Fig. 3.3—9, 2).
4. Enter the max. allowed number of CAN errors that may occur during message delivery into the “by message transferring” field under “Allowed errors amount” field. If errors exceed this number, connection with the linked FCP is rated as disrupted (see Fig. 3.3—9, 3).
5. Enter the max. allowed number of CAN errors that may occur during message reception into the “by message receiving” field under “Allowed errors amount” field. If errors exceed this number, connection with the linked FCP is rated as disrupted (see Fig. 3.3—9, 4).

- To apply the settings to the FCP you must click the “Save Configuration” button (see Fig. 3.3—9, 5).
- To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.3—9, 6).

Configuring polling of the CAN network stations is completed.

### 3.3.8 Configuring the RS interface parameters for the IFS7002 Fire Control Panel

To configure the RS interface parameters for the IFS7002 Fire Control Panel you should:

- Go to the settings panel of the “IFS7002” object (Fig. 3.3—10).

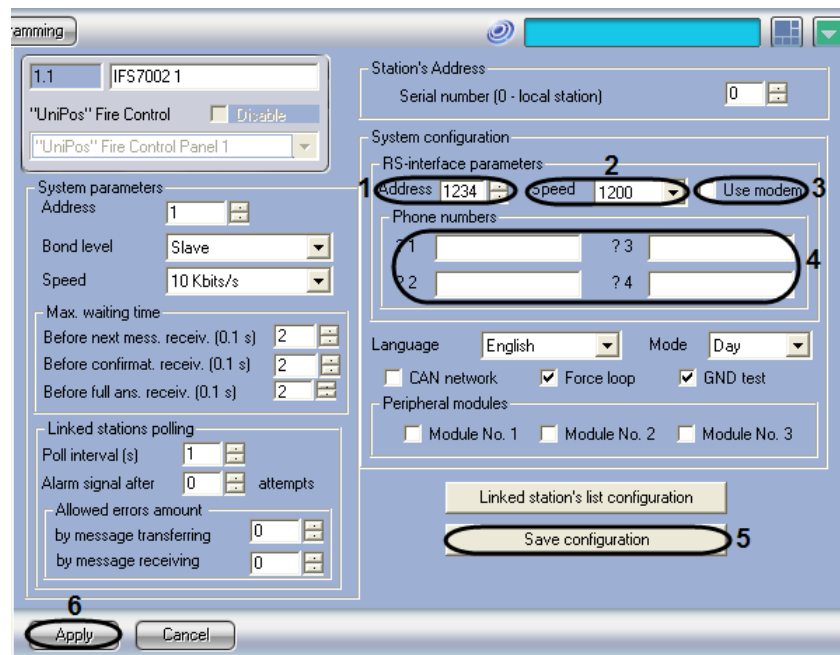


Fig. 3.3—10 Configuring the RS interface parameters for the IFS7002 Fire Control Panel

- Enter the RS network address of the FCP (from 0 to 9999) into the “Address” field (see Fig. 3.3—10, 1).

**Warning! The network address must be unique.**

- Select the data exchange rate in the RS network from “Speed” drop-down list (see Fig. 3.3—10, 2).
- If a dial-up connection is required for the RS network, check the “Use modem” checkbox (see Fig. 3.3—10, 3).
- Enter the phone numbers for the dial-up connection into the “Phone numbers” field (see Fig. 3.3—10, 4).
- To apply the settings to the FCP you must click the “Save Configuration” button (see Fig. 3.3—10, 5).
- To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.3—10, 6).

Configuring the RS interface parameters for the IFS7002 Fire Control Panel is completed.

### 3.4 Configuring the SLCs/Loops

A loop (same as SLC) is configured through the settings panel of the “Loop” object. This object is created from the “IFS7002” object on the “Hardware” tab of the “System settings” dialog box (Fig. 3.4—1).

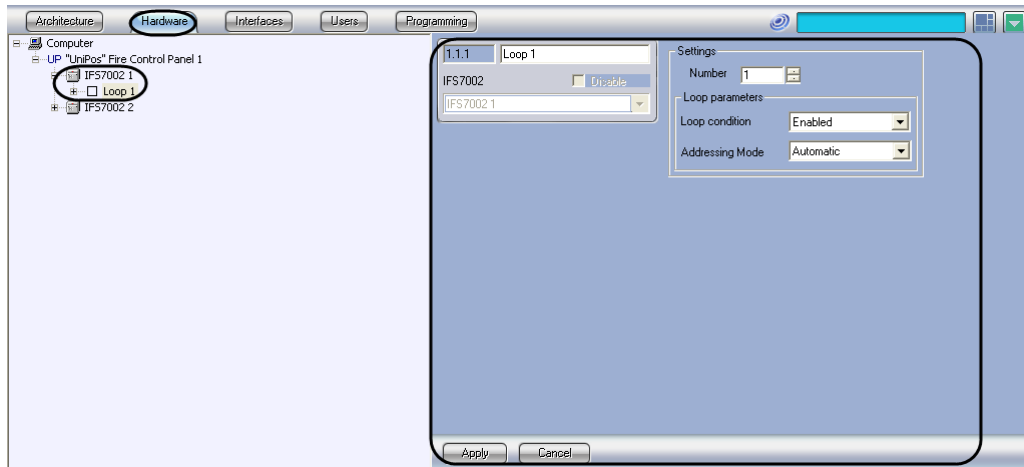


Fig. 3.4—1 The “Loop” object

*Note.* The “IFS7002” object refers to the IFS7002 FCP which hosts the given loop.

Once the configuration of the Unipos FSA is read (see the Configuring the parameters of the Unipos FSA section), the “Loop” objects are registered and configured automatically. You can also configure the SLCs on the settings panel of the relevant objects.

Loops are configured as follows:

1. Go to the settings panel of the “Loop” object (Fig. 3.4—2).

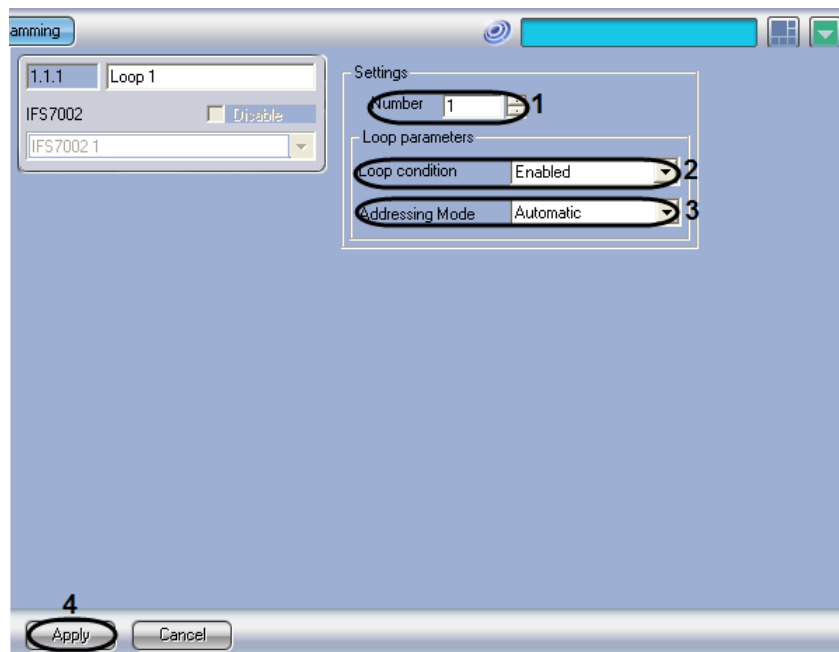


Fig. 3.4—2 Configuring a SLC

2. Enter the number of the loop (1 or 2) into the “Number” field (see Fig. 3.4—2, 1).
3. Select Enabled/Disabled in the “Loop condition” field (see Fig. 3.4—2, 2).

4. Select the automatic or manual addressing mode in the CAN network for addressable devices linked in the loop into the “Addressing mode” field (see Fig. 3.4—2, 3).
5. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.4—2, 4).
6. Repeat steps 1-5 for all SLCs of the Unipos FSA.

Configuring the SLCs/Loops is completed.

**Warning!** To apply the settings to the FCP you must click the “Save Configuration” button in the settings panel of the parent “IFS7002” object.

### 3.5 Configuring the addressable detectors

Addressable detectors (same as fire alarm boxes) are configured through the settings panel of the “Address fire alarm box” object.

*Note.*

Through the settings panel of the “Address fire alarm box” object you can also configure the FD7201 and FD7201S devices used to wire up the conventional (non-addressable) fire alarm boxes. Each of these devices includes an addressable fire detector too.

Please refer to the official documentation of the addressable detectors to find detailed information and specifications.

This object is created from the “Loop” object on the “Hardware” tab of the “System settings” dialog box (Fig. 3.5—1).

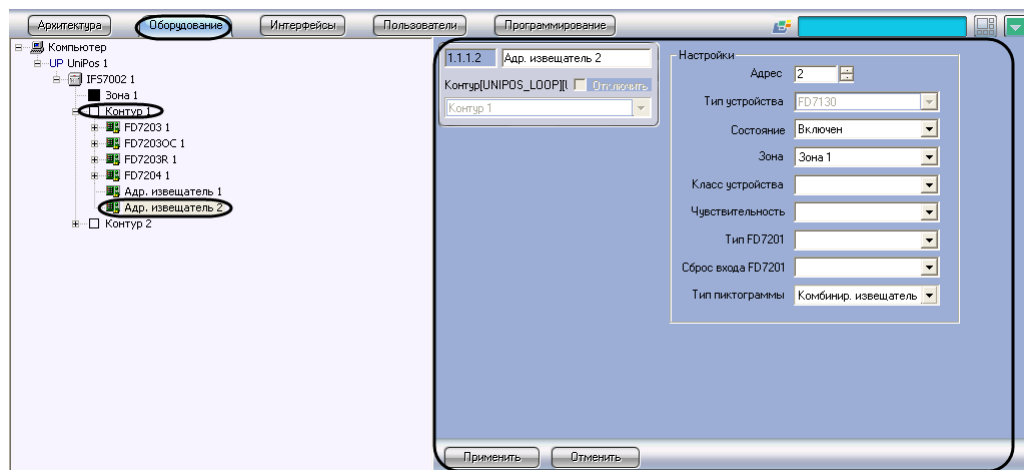


Fig. 3.5—1 The “Address fire alarm box” object

*Note.* The “Loop” object represents the SLC loop which hosts the the addressable detector.

Once the configuration of the Unipos FSA is read (see the Configuring the parameters of the Unipos FSA section), the “Address fire alarm box” objects are registered and configured automatically. You can also configure the addressable detectors on the settings panel of the relevant objects.

The addressable detectors are configured as follows:

1. Go to the settings panel of the “Address fire alarm box” object (Fig. 3.5—2).

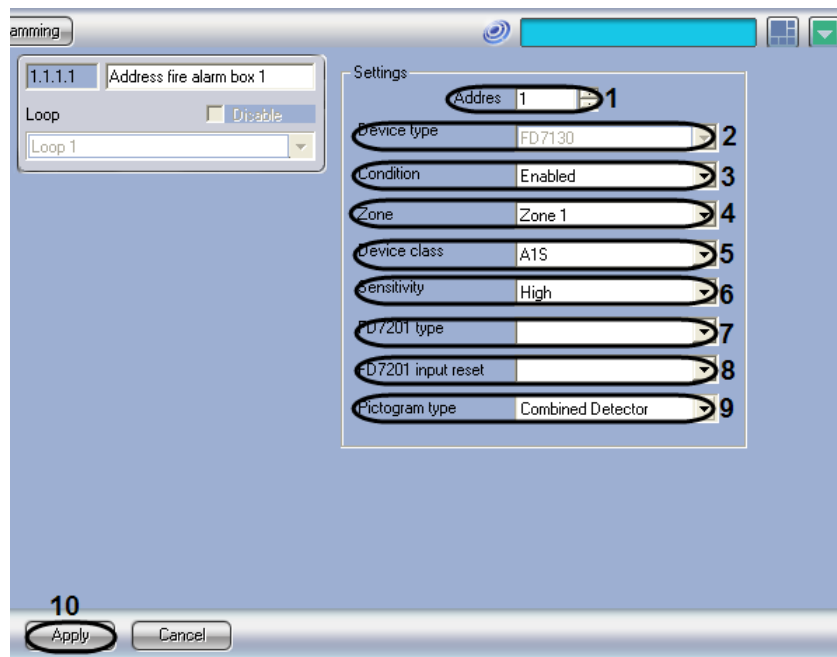


Fig. 3.5—2 Configuring the addressable detector

2. Enter the CAN network address of the detector into the “Address” field (see Fig. 3.5—2, 1).
3. The “Device type” field automatically displays the type of the fire alarm box (see Fig. 3.5—2, 2).
4. Select Enabled/Disabled in the “Condition” field (see Fig. 3.5—2, 3).
5. Select the “Zone” drop-down list select the zone which will cover the fire detector (see Fig. 3.5—2, 4).
6. Select the temperature class of the detector from the “Device class” drop-down list (see Fig. 3.5—2, 5).

*Note. For the FD7201 and FD7201S devices you should select the temperature class of the incorporated detector.*

7. Select the required sensitivity from the “Sensitivity” drop-down list (see Fig. 3.5—2, 6).
8. For the FD7201 and FD7201S devices select the type of the device from the “FD7201 type” drop-down list (controllable output or adapter) (see Fig. 3.5—2, 7).
9. For the FD7201 and FD7201S devices select the reset type of the device (manual or automatic switch from alarm into normal state) from the “FD7201 inputs reset” drop-down list (see Fig. 3.5—2, 8).
10. Select the icon of the detector from the “Pictogram type” drop-down list (see Fig. 3.5—2, 9).
11. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.5—2, 10).
12. Repeat these steps 1-5 for all fire alarm boxes (detectors) of the Unipos FSA.

Configuring the addressable detectors is completed.

**Warning!** To apply the detector settings to the FCP you must click the “Save Configuration” button in the settings panel of the parent “IFS7002” object.

## 3.6 Configuring the addressable modules for connection of actuators

You can set up the following addressable modules for connection of external devices/actuators:

1. FD7203;
2. FD7203OC;
3. FD7203R;
4. FD7204.

**Warning!** To apply the modules settings to the FCP you must click the “Save Configuration” button in the settings panel of the parent “IFS7002” object.

### 3.6.1 Configuring the FD7203 addressable module

#### 3.6.1.1 Configure the FD7203 addressable module as follows:

The FD7203 addressable modules are designed to control the external actuators (output devices) when the Unipos FSA registers a Fire Condition or Fault.

The output devices are controlled through:

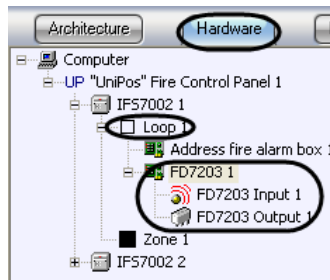
1. 1 controllable output;
2. 4 relay outputs;
3. 3 inputs.

*Note.* Please refer to the official documentation of the FD7203 addressable module to find detailed information and specifications.

Considering the FD7203 addressable module build you should configure it as follows:

1. Configure the parameters of the addressable module.
2. Configure the inputs of the addressable module.
3. Configure the outputs of the addressable module.

The FD7203 addressable modules are configured through the settings panel of the “FD7203” object. This object is created from the “Loop” object (Fig. 3.6—1). The inputs and outputs of the FD7203 addressable modules are configured through the settings panel of the “FD7203 input ” and “FD7203 output ” objects. These objects are created from the “FD7203” object (Fig. 3.6—1).



**Fig. 3.6—1** The “FD7203” object tree in the Intellect object tree

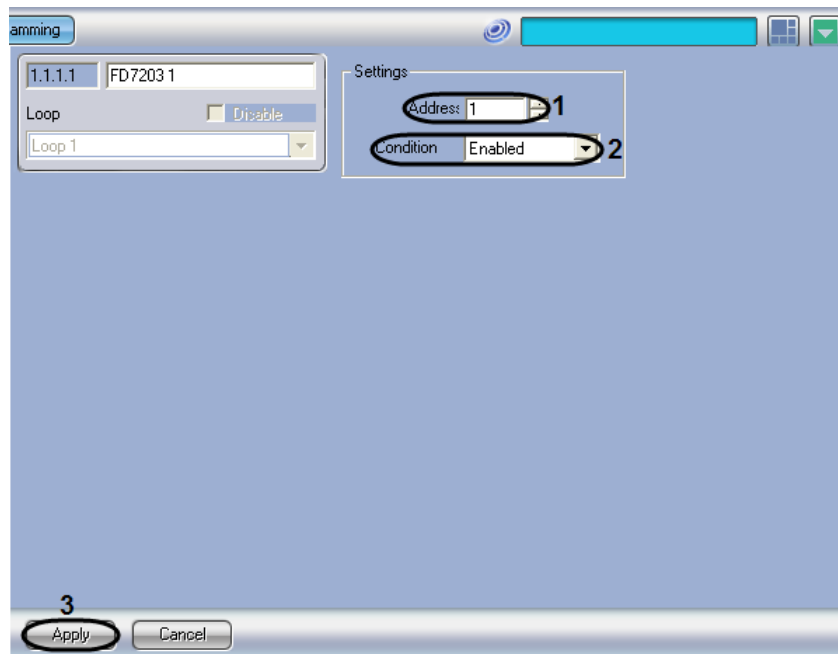
*Note.* The “Loop” object represents the SLC loop which hosts the FD7203 addressable module.

Once the configuration of the Unipos FSA is read, the “IFS7003” objects are registered and configured automatically (see the “Configuring the parameters of the Unipos FSA” section). You can also configure the FD7203 addressable modules on the settings panel of the relevant objects.

### 3.6.1.2 Configuring the FD7203 addressable module

Configure the FD7203 addressable module as follows:

1. Go to the settings panel of the “FD7203” object (Fig. 3.6—2).



**Fig. 3.6—2** Configuring the FD7203 addressable module

2. Enter the CAN network address of the FD7203 module into the “Address” field (see Fig. 3.6—2, 1).
3. Select Enabled/Disabled in the “Condition” field (see Fig. 3.6—2, 2).
4. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.6—2, 3).

Configuring the FD7203 addressable module is completed.

### 3.6.1.3 Configuring inputs of the FD7203 addressable module

Configure inputs of the FD7203 addressable module as follows:

1. Go to the settings panel of the “FD7203 input” object (Fig. 3.6—3).

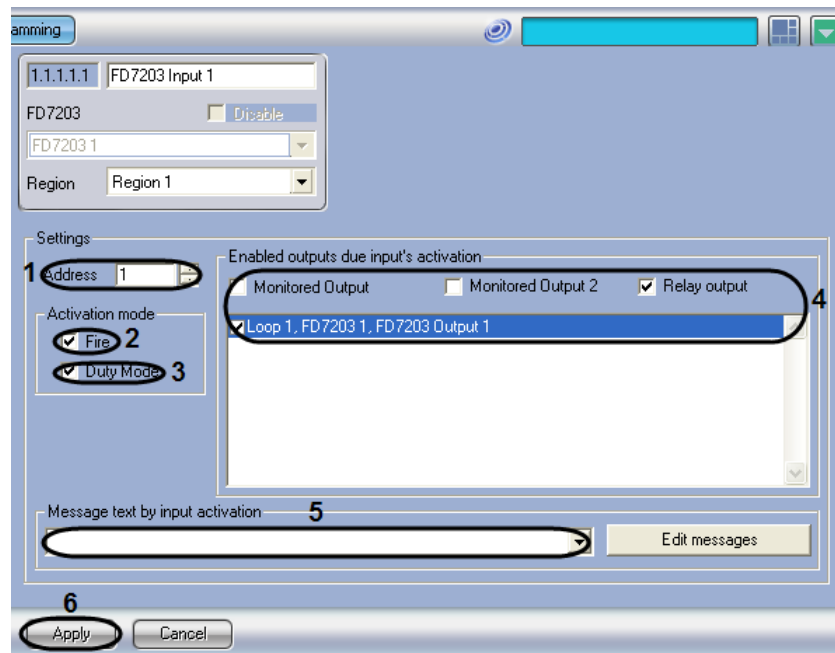


Fig. 3.6—3 Configuring inputs of the FD7203 addressable module

2. Enter the CAN network address of the FD7203 module input (from 1 to 3) into the “Address” field (see Fig. 3.6—3, 1)
3. If to activate an input you are required to employ outputs in the “Fire Condition” mode then check the “Fire” checkbox in the “Activation Mode” area (see Fig. 3.6—3, 2).
4. If to activate an input you are required to employ outputs in the “Duty” mode then check the “Duty mode” checkbox in the “Activation Mode” area (see Fig. 3.6—3, 3).

*Note. For more information on the modes of the IFS7002 FCP, please refer to the official documentation of the IFS7002 FCP.*

5. Flag the outputs that must be activated alongside with the input in the “Enabled outputs due input's activation” group (see Fig. 3.6—3, 4).

*Note. You can enable the following outputs:*

1. controllable (monitored) outputs of the IFS7002 Fire Control Panel;
2. relay output of the IFS7002 Fire Control Panel.
3. outputs of the registered addressable modules.

6. Select a message that will be displayed on input activation from the “Message text by input activation” drop-down list (see Fig. 3.6—3, 5).

*Note. To edit the messages click the “Edit Messages” button.*

7. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.6—3, 6).
8. Repeat steps 1-7 for all the required inputs of the FD7203 module.

Configuring inputs of the FD7203 addressable module is completed.

You can edit messages that will be displayed on input activation of the FD7203 addressable module as follows:

1. Go to the settings panel of the “FD7203 input” object (Fig. 3.6—4).

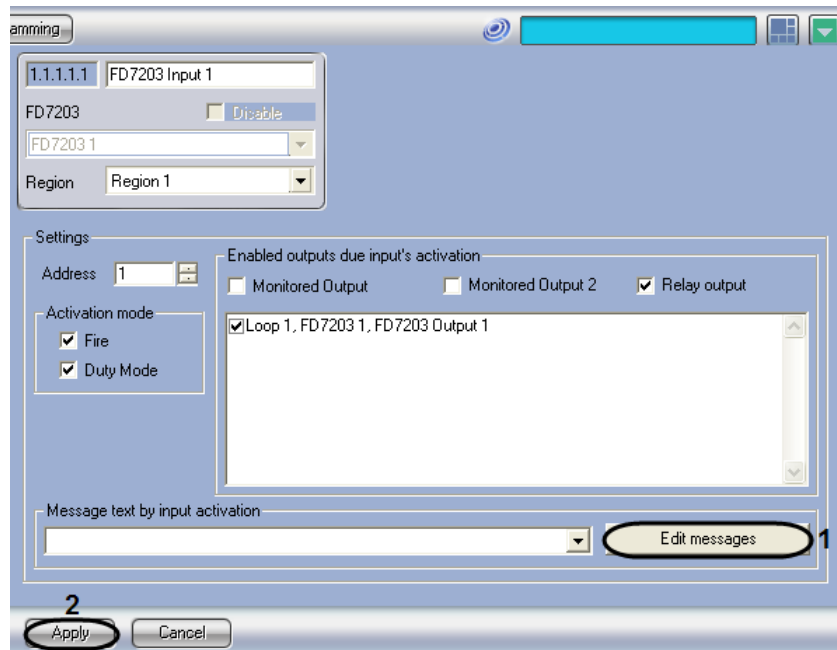


Fig. 3.6—4 How to open the Edit Messages window

2. Click the “Edit messages” button (see Fig. 3.6—4, 1).
3. The Edit Messages window opens (Fig. 3.6—5).

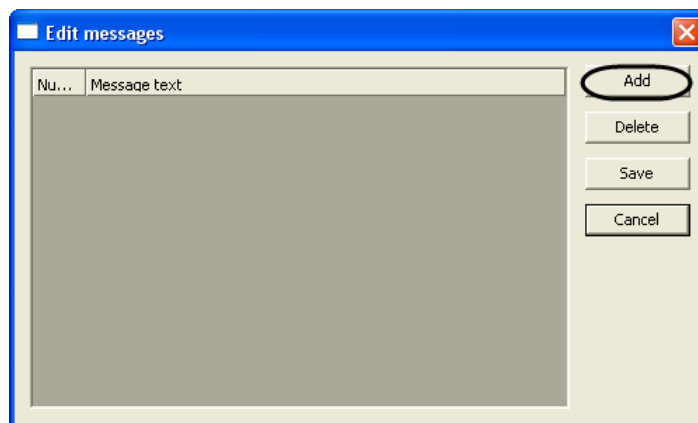


Fig. 3.6—5 The Edit Messages window

4. To add a new message to the list click the “Add” button (see Fig. 3.6—5).
5. This will show a new row in the table (see Fig. 3.6—6).

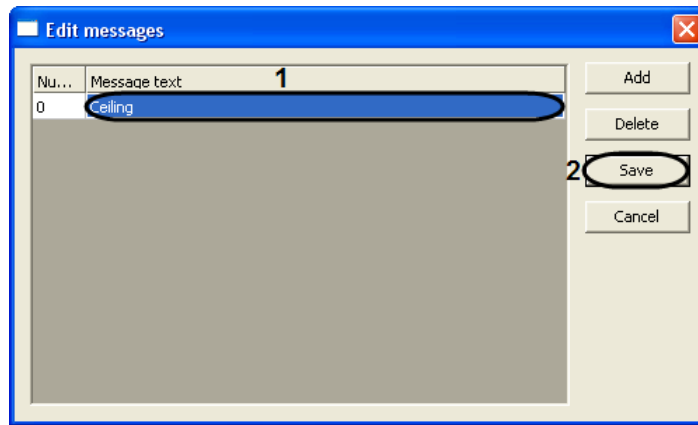


Fig. 3.6—6 How to add a message

6. Enter the new message into “Message text” column (see Fig. 3.6—6, 1).
7. Repeat steps 4 to 6 for all new messages.

*Note.* To remove a message from the list, you should select any cell of the relevant row and click the “Delete” button (see Fig. 3.6—6).

8. To save changes and close the “Edit messages” window, click the “Save” button (see Fig. 3.6—6, 2).

*Note.* To discard changes and close the “Edit messages” window, click the “Cancel” button (see Fig. 3.6—6).

9. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.6—4, 2).

Editing messages that will be displayed on input activation of the FD7203 addressable module is completed.

#### **3.6.1.4 Configuring outputs of the FD7203 addressable module**

Configure outputs of the FD7203 addressable module as follows:

1. Go to the settings panel of the “FD7203 output” object (Fig. 3.6—7).

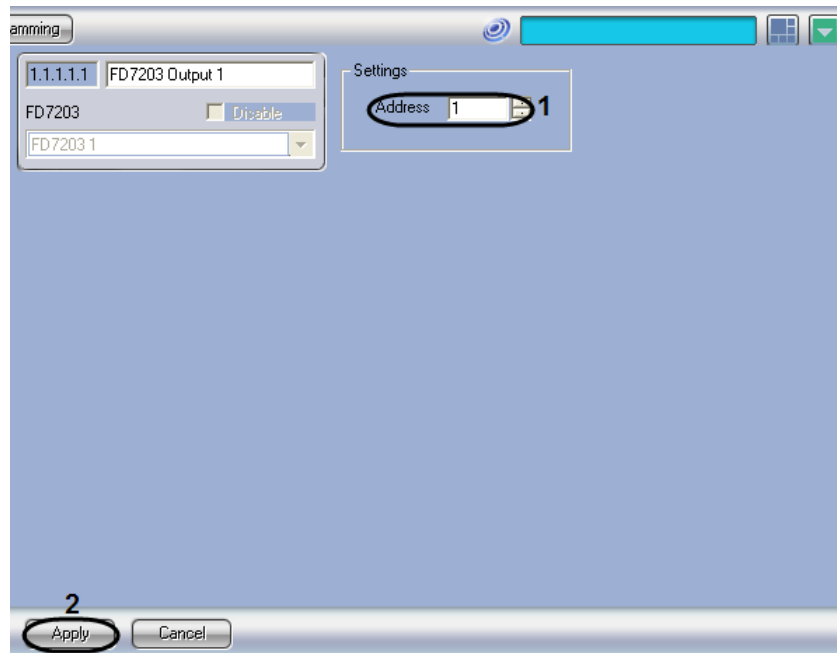


Fig. 3.6—7 Configuring outputs of the FD7203 addressable module

2. Enter the CAN network address of the FD7203 module output into the “Address” field (see Fig. 3.6—7, 1).
3. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.6—7, 2).
4. Repeat steps 1-3 for all the required outputs of the FD7203 module.

Configuring outputs of the FD7203 addressable module is completed.

### 3.6.2 Configuring the FD7203C addressable module

The FD7203OC addressable modules are designed to control the external actuators (output devices) when the Unipos FSA registers a Fire Condition or Fault.

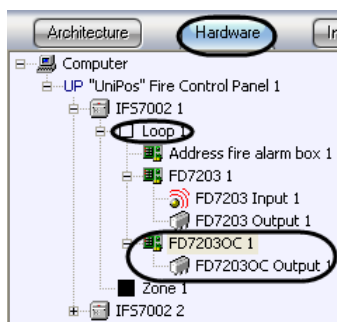
The output devices are controlled via a relay output.

*Note. Please refer to the official documentation of the FD7203OC addressable module to find detailed information and specifications.*

Considering the FD7203OC addressable module build you should configure it as follows:

1. Configure the parameters of the addressable module.
2. Activate the output of the addressable module.

The FD7203OC addressable modules are configured through the settings panel of the “FD7203OC” object. This object is created from the “Loop” object (Fig. 3.6—8). The output of the FD7203OC addressable module is activated through the registration of the “FD7203OC output” object from the “FD7203OC” object (Fig. 3.6—8).



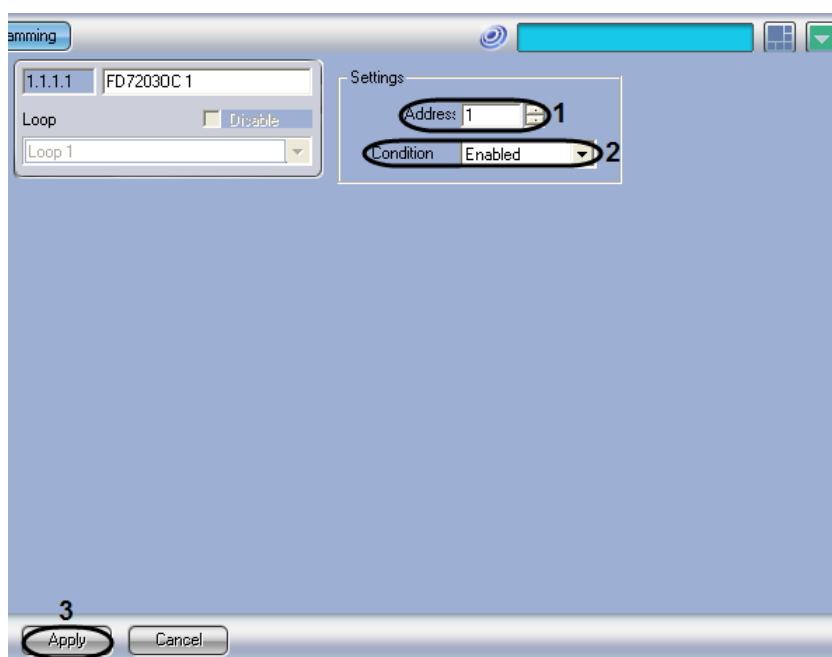
**Fig. 3.6—8 The “FD7203OC” object tree in the Intellect object tree**

*Note. The “Loop” object represents the SLC loop which hosts the FD7203OC addressable module.*

Once the configuration of the Unipos FSA is read, the “FD7203OC” objects are registered and configured automatically (see the Configuring the parameters of the Unipos FSA section). You can also configure the FD7203OC addressable modules on the settings panel of the relevant FD7203OC objects.

Configure the FD7203OC addressable module as follows:

1. Go to the settings panel of the “FD7203OC” object (Fig. 3.6—9).



**Fig. 3.6—9 Configuring the FD7203OC addressable module**

2. Enter the CAN network address of the FD7203OC module into the “Address” field (see Fig. 3.6—9, 1).
3. Select Enabled/Disabled in the “Condition” field (see Fig. 3.6—9, 2).
4. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.6—9, 3).

Configuring the FD7203OC addressable module is completed.

### 3.6.3 Configuring the FD7203R addressable module

#### 3.6.3.1 Procedure for configuring the FD7203R addressable module

The FD7203R addressable modules are designed to control the external actuators (output devices) when the Unipos FSA registers a Fire Condition or Fault.

The output devices are controlled via a non-potential relay output.

*Note. Please refer to the official documentation of the FD7203R addressable module to find detailed information and specifications.*

Considering the FD7203R addressable module build you should configure it as follows:

1. Configure the parameters of the addressable module.
2. Configure the output of the addressable module.

The FD7203R addressable modules are configured through the settings panel of the “FD7203R” objects. This object is created from the “Loop” object (Fig. 3.6—10). The output of the FD7203R addressable modules is configured through the settings panel of the “FD7203R output” object. This object is created from the “FD7203R” object (Fig. 3.6—10).

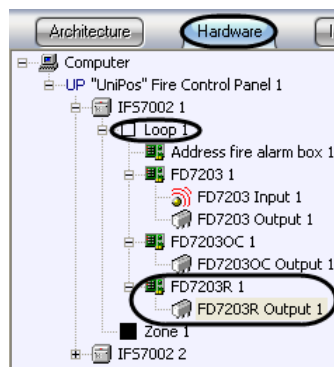


Fig. 3.6—10 The “FD7203R” object tree in the Intellect object tree

*Note. The “Loop” object represents the SLC loop which hosts the FD7203R addressable module.*

Once the configuration of the Unipos FSA is read, the “FD7203R” objects are registered and configured automatically (see the “Configuring the parameters of the Unipos FSA” section). You can also configure the FD7203R addressable modules on the settings panel of the relevant objects.

#### 3.6.3.2 Configuring parameters of the FD7203R addressable module

Configure the FD7203R addressable module as follows:

1. Go to the settings panel of the “FD7203R” object (Fig. 3.6—11).

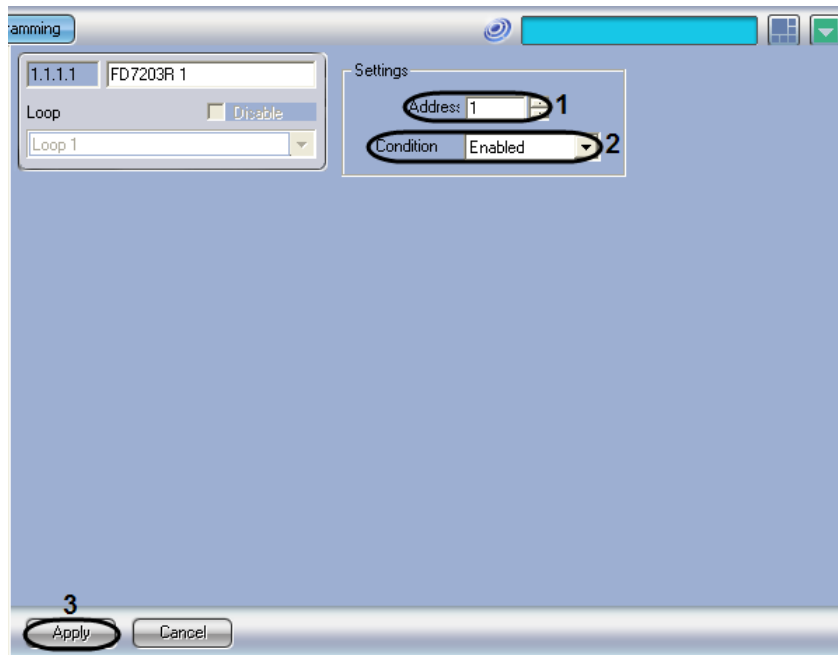


Fig. 3.6—11 Configuring the FD7203 addressable module

2. Enter the CAN network address of the FD7203R module into the “Address” field (see Fig. 3.6—11, 1).
3. Select Enabled/Disabled in the “Condition” field (see Fig. 3.6—11, 2).
4. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.6—11, 3).

Configuring the FD7203R addressable module is completed.

### 3.6.3.3 Configuring outputs of the FD7203R addressable module

Configure outputs of the FD7203R addressable module as follows:

1. Go to the settings panel of the “FD7203R output” object (Fig. 3.6—12).

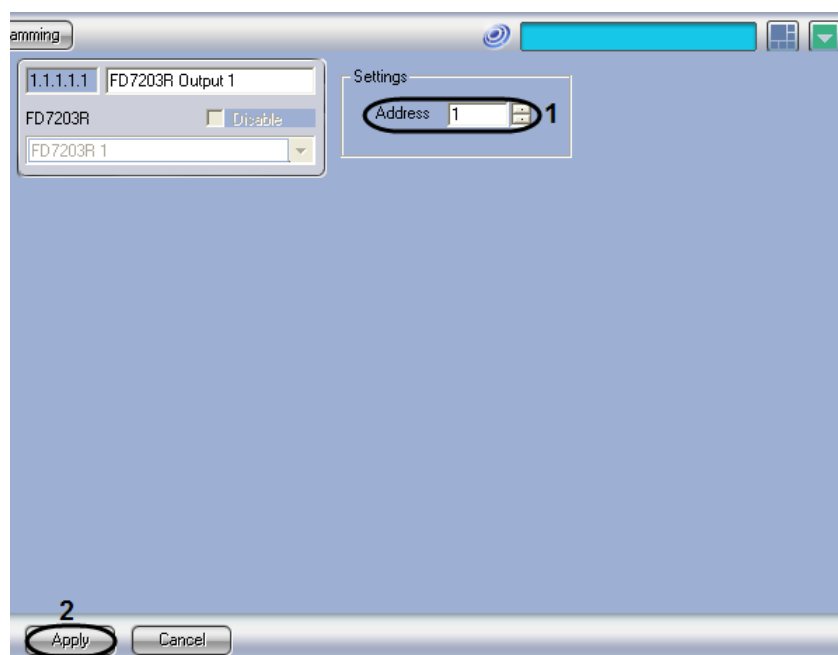


Fig. 3.6—12 Configuring outputs of the FD7203R addressable module

2. Enter the CAN network address of the FD7203R module output into the “Address” field (see Fig. 3.6—12, 1).
3. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.6—12, 2).

Configuring outputs of the FD7203R addressable module is completed.

### 3.6.4 Configuring the FD7204 addressable notification appliance

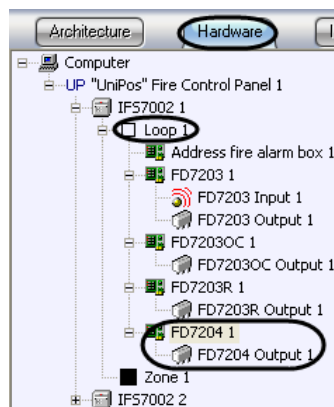
The FD7204 addressable notification appliance is designed to produce a sound alarm to alert of Fire Condition in a Unipos FSA.

*Note. Please refer to the official documentation of the FD7204 addressable notification appliance to find detailed information and specifications.*

Configure the FD7204 addressable notification appliance as follows:

1. Configure the parameters of the addressable notification appliance.
2. Activate the notification appliance.

The FD7204 addressable notification appliance is configured through the settings panel of the “FD7204” object. This object is created from the “Loop” object (Fig. 3.6—13). The FD7204 addressable notification appliance is activated through the registration of the “FD7204 output” object from the “FD7204” object (Fig. 3.6—13).



**Fig. 3.6—13 The “FD7204” object tree in the Intellect object tree**

*Note. The “Loop” object represents the SLC loop which hosts the FD7204 addressable notification appliance.*

Once the configuration of the Unipos FSA is read, the “FD7204” objects are registered and configured automatically (see the Configuring the parameters of the Unipos FSA section). You can also configure the FD7204 addressable notification appliance on the settings panel of the relevant FD7204 objects.

Configure parameters of the addressable notification appliance as follows:

1. Go to the settings panel of the “FD7204” object (Fig. 3.6—14).

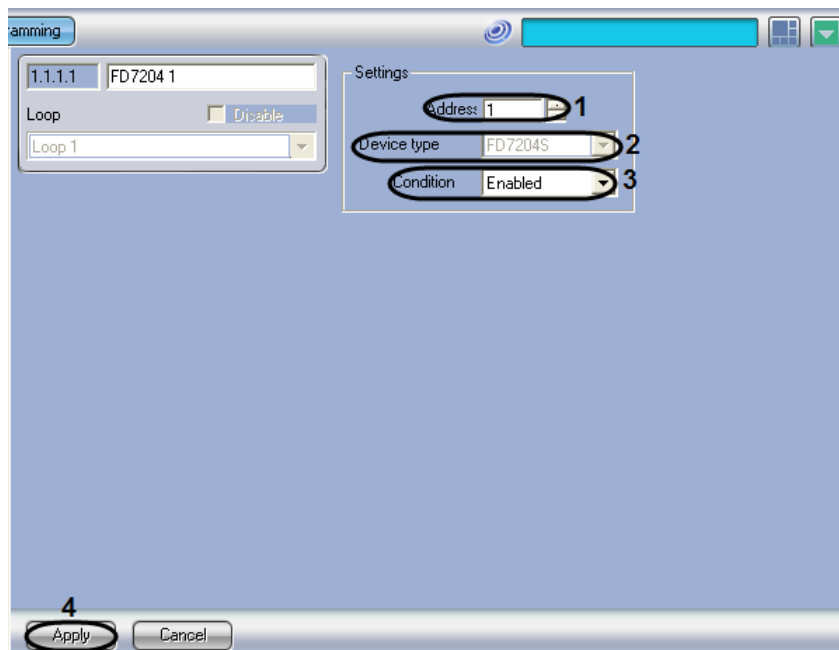


Fig. 3.6—14 Configuring the FD7204 addressable notification appliance

2. Enter the CAN network address of the FD7204 notification appliance into the “Address” field (see Fig. 3.6—14, 1).

*Note.* The “Device type” field automatically displays the type of the connected notification appliance (see Fig. 3.6—14, 2).

3. Select Enabled/Disabled in the “Condition” field (see Fig. 3.6—14, 3).
4. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.6—14, 4).

Configuring the FD7204 addressable notification appliance is completed.

## 3.7 Configuring zones

### 3.7.1 Configuring procedure for zones

A zone is configured through the settings panel of the “Zone” object. This object is created from the “IFS7002” object on the “Hardware” tab of the “System settings” dialog box (Fig. 3.7—1).

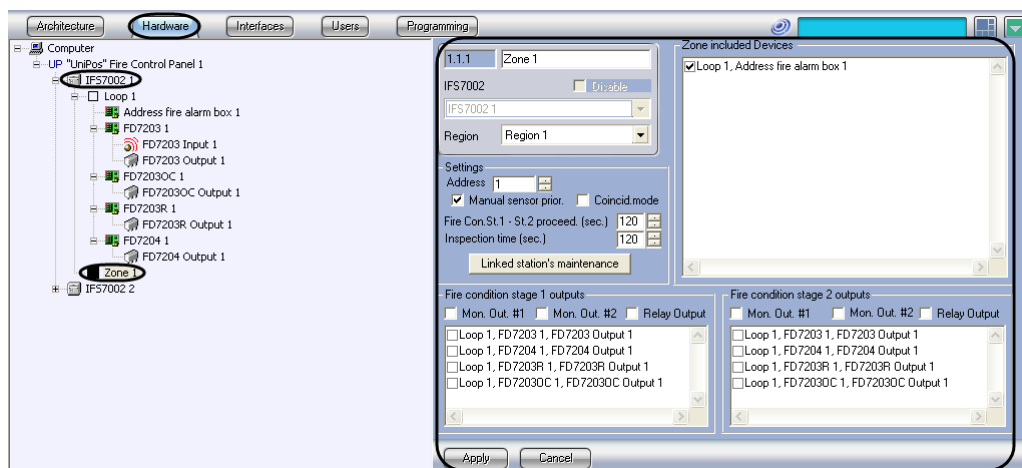


Fig. 3.7—1 The “Zone” object

Once the configuration of the Unipos FSA is read the “Zone” objects are registered and configured automatically (see the Configuring the parameters of the Unipos FSA section). You can also configure the zones and register new ones on the settings panel of the relevant “Zone” objects.

The zones are configured as follows:

1. Configure parameters of the zones.
2. Configure maintenance of the CAN network stations.
3. Include the addressable fire alarm boxes (detectors).
4. Configure the outputs that will be employed under Fire Condition in the zone.
5. Configure the outputs that will be employed under Fire Condition in the zone.
6. Repeat steps 1 to 5 for all the required zones.

**Warning!** To apply the settings to the FCP you must click the “Save Configuration” button in the settings panel of the parent “IFS7002” object.

### 3.7.2 Configuring parameters of the zones

Configure parameters of the zone as follows:

1. Go to the settings panel of the “Zone” object (Fig. 3.7—2).

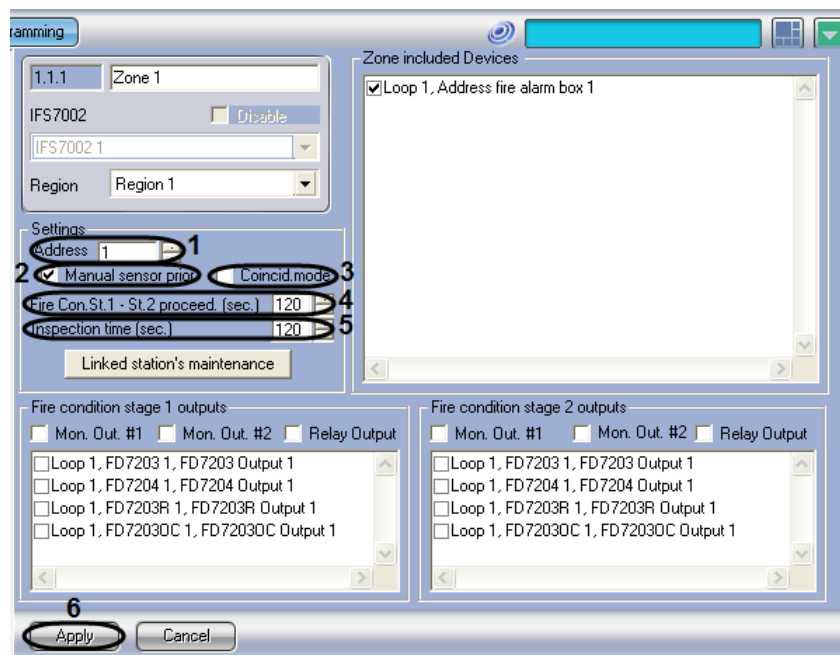


Fig. 3.7—2 Configuring parameters of the zones

2. Enter the number of the zone into the “Address” field (see Fig. 3.7—2, 1).
3. If the manual sensor must go off first, then check the “Manual sensor prior.” checkbox (see Fig. 3.7—2, 2). If checked, the manual sensor goes off and activates the Fire Condition Stage 2. Otherwise the Fire Condition Stage 1 is activated.

4. If the Overlap (Coincidence) mode should be used for the zone, then check the “Coincidence mode” checkbox (see Fig. 3.7—2, 3).
5. In the “Fire Cond St.1 -St.2. proceed. (sec.)” field set the stage 1–2 transition time in seconds (see Fig. 3.7—2, 4).
6. Set the Inspection Time in seconds for the “Fire Condition 1” into the “Inspection Time” field (see Fig. 3.7—2, 5).
7. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.7—2, 6).

Configuring parameters of the zone is completed.

### 3.7.3 Configuring interaction of the network FCPs

You can configure interaction of the zones when a Fire Condition is registered.

Configure the interaction of the linked stations as follows:

1. Go to the settings panel of the “Zone” object (Fig. 3.7—3).

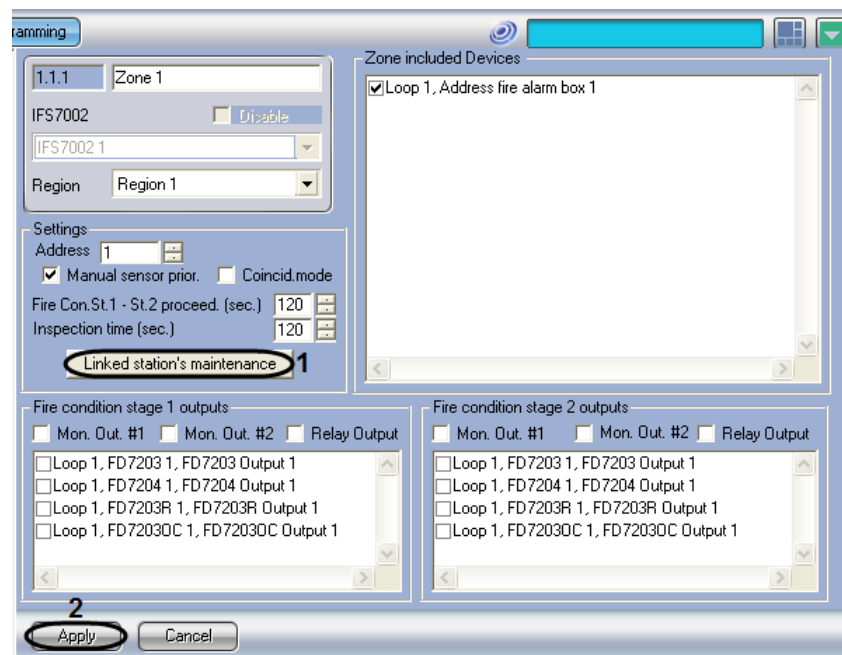


Fig. 3.7—3 Configuring interaction of the network stations

2. Click the “Linked station's maintenance” button (see Fig. 3.7—3, 1).
3. The “Linked station's maintenance” dialog window opens (Fig. 3.7—4).

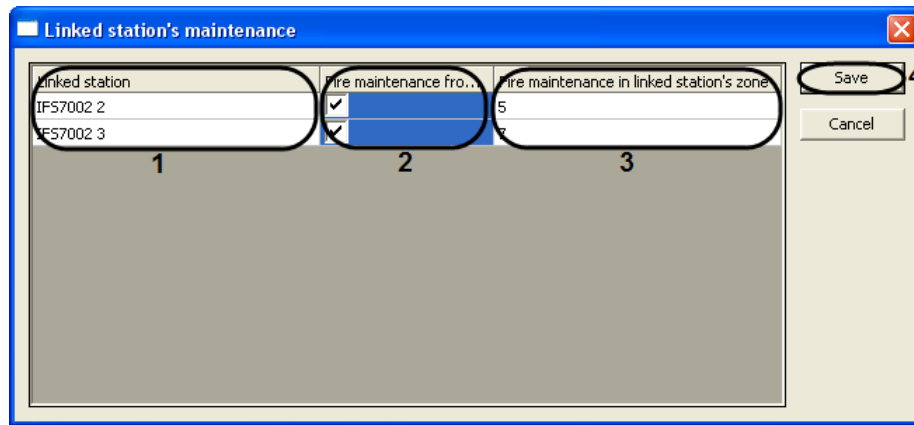


Fig. 3.7—4 The Linked station's maintenance dialog window

- The “Linked station” column displays the list of the network FCPs (see Fig. 3.7—4, 1).

*Note. This list is set up on the settings panel of the “IFS7002” object (see the “Configuring the CAN network stations list” section).*

- If the outputs of the current zone should cover for the fire conditions within the linked stations' zones, you should check the “Fire maintenance from ..(linked station's zone)” checkboxes against the required network FCPs (see Fig. 3.7—4, 2).
- If the outputs of the network FCPs should cover for the fire conditions within the current zone, you should enter the zone number of the linked FCP into “Fire maintenance in linked station's zone)” field (see Fig. 3.7—4, 3).
- To save changes and close the “Linked station's maintenance” window, click the “Save” button (see Fig. 3.7—4, 4).

*Note. To discard changes and close the “Linked station's maintenance” window, click the “Cancel” button (see Fig. 3.7—4).*

- The “Linked station's maintenance” window will close.
- To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.7—3, 2).

Configuring interaction of the CAN network FCPs is completed.

### 3.7.4 How to include the addressable fire alarm boxes (detectors) into a zone

You can include the addressable fire alarm boxes (detectors) into a zone as follows:

- Go to the settings panel of the “Zone” object (Fig. 3.7—5).

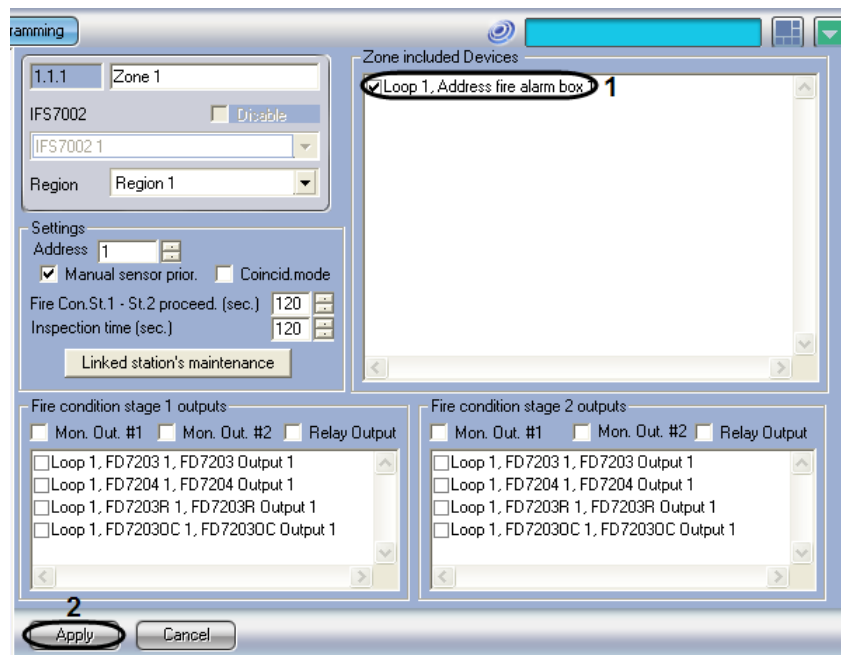


Fig. 3.7—5 How to include detectors in a zone

2. In the “Zone Included Devices” group, check the required addressable detectors (see Fig. 3.7—5, 1).

*Note. For every detector the relevant “Address fire alarm box” object is displayed alongside with the name of the parent “Loop” object.*

3. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.7—5, 2).

You have successfully included the addressable fire alarm boxes (detectors) into the zone.

### 3.7.5 Configuring the outputs that will be employed under Fire Condition 1 in a zone.

Configuring procedure for the outputs that will be employed under Fire Condition 1 in a zone is as follows:

1. Go to the settings panel of the “Zone” object (Fig. 3.7—6).

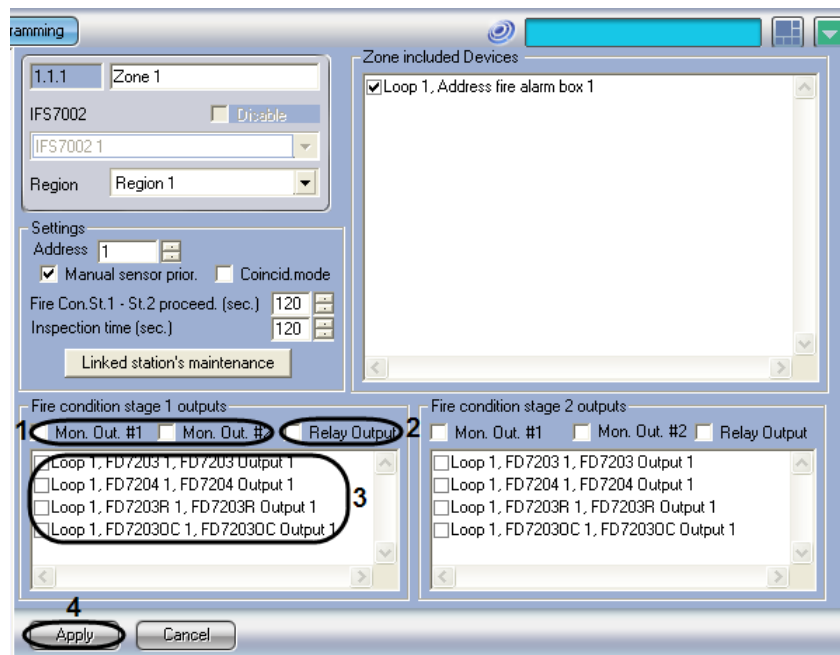


Fig. 3.7—6 Configuring the outputs that will be employed under Fire Condition 1 in a zone.

2. If the external devices controlled by the controllable outputs of the IFS7002 FCP must be employed under “Fire Condition 1” then check the required “Mon. Out.# ..” checkboxes in “Fire Conditions Stage 1” group (see Fig. 3.7—6, 1).
3. If the external devices controlled by the relay output of the IFS7002 FCP must be employed under “Fire Condition 1” then check the “Relay output” checkbox in “Fire Conditions Stage 1” group (see Fig. 3.7—6, 2).
4. If the external devices controlled by the outputs of the addressable modules must be employed under “Fire Condition 1” then flag the required outputs (see Fig. 3.7—6, 3).
5. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.7—6, 4).

Configuring the outputs that will be employed under Fire Condition 1 in the zone is completed.

### 3.7.6 Configuring the outputs that will be employed under Fire Condition 2 in a zone.

Configuring procedure for the outputs that will be employed under Fire Condition 2 in a zone is as follows:

1. Go to the settings panel of the “Zone” object (Fig. 3.7—7).

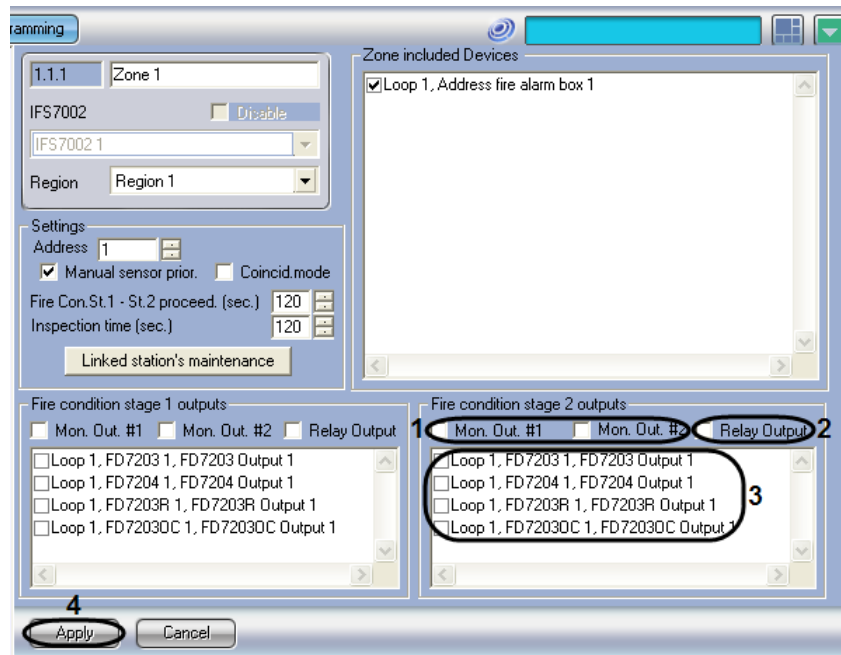


Fig. 3.7—7 Configuring the outputs that will be employed under Fire Condition 2 in a zone.

2. If the external devices controlled by the controllable outputs of the IFS7002 FCP must be employed under “Fire Condition 2” then check the required “Mon. Out.# ..” checkboxes in “Fire Conditions Stage 2 Outputs” group (see Fig. 3.7—7, 1).
3. If the external devices controlled by the relay output of the IFS7002 FCP must be employed under “Fire Condition 2” then check the “Relay output” checkbox in “Fire Conditions Stage 2 Outputs” group (see Fig. 3.7—7, 2).
4. If the external devices controlled by the outputs of the addressable modules must be employed under “Fire Condition 2” then flag the required outputs (see Fig. 3.7—7, 3).
5. To save the settings into the Intellect internal DB, click the “Apply” button (see Fig. 3.7—7, 4).

Configuring the outputs that will be employed under Fire Condition 2 in the zone is completed.

## 4 Operation of the Unipos integration module.

### 4.1 General information on the Unipos integration module

The following interface objects are used to operate the Unipos integration module:

1. Map (Fig. 4.1—1);
2. Event log (Fig. 4.1—2).

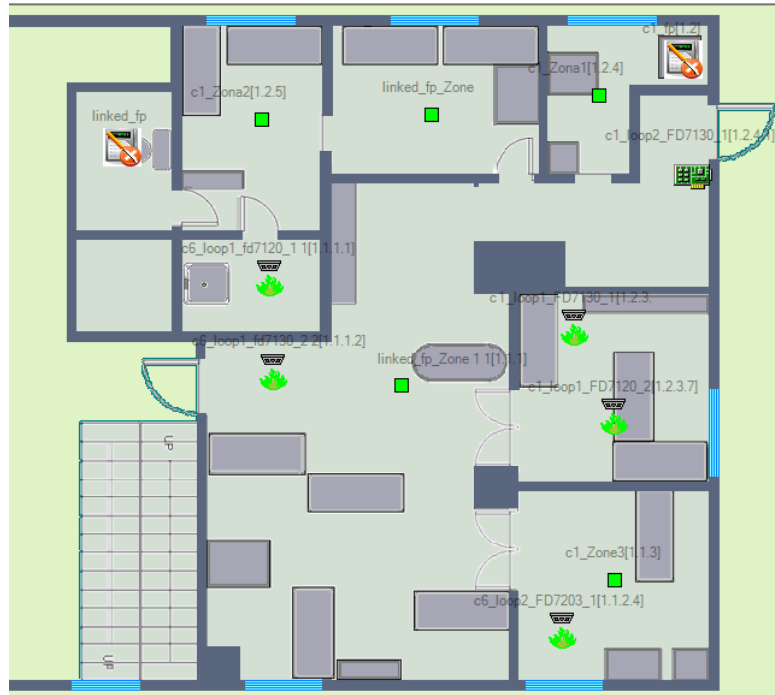


Fig. 4.1—1 How to operate the Unipos integration module in the Map interface window

Source	Event	Regi...	Additional information	Date	Time
IFS7002 1	Command not executed		Switch to "Fire 2 Condition"	11-08-09	2:18...
IFS7002 1	Command not executed		Restart	11-08-09	2:19...
IFS7002 1	Command not executed		Restart	11-08-09	2:19...

Fig. 4.1—2 How to operate the Unipos integration module in the Event Log window

Information on how to configure the “Map” and “Event log” interface objects is presented in the document titled “Intellect Software Package: Administrator’s Guide”.

Operation of the specified interface objects is described in detail in the document titled “Intellect Software Package: Operator’s Guide”.

### 4.2 How to control the Unipos FSA from the Map interface window

To control the Unipos FSA from the Map interface window you can utilize menus of the following objects:

1. “IFS7002” (Fig. 4.2—1);

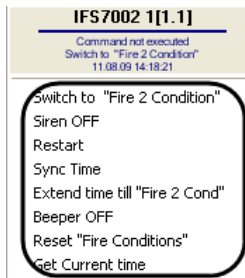


Fig. 4.2—1 Functions menu of the “IFS7002” object

2. “Zone” (Fig. 4.2—2);

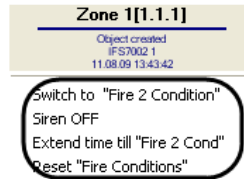


Fig. 4.2—2 Functions menu of the “Zone” object

3. “Fire alarm box” (Fig. 4.2—3).

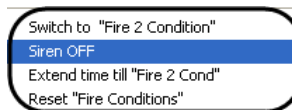


Fig. 4.2—3 Functions menu of the “Fire alarm box” object

Control commands of the Unipos FSA are presented here (Table 4.2—1).

Table 4.2—1 Control commands of the Unipos FSA

Function menu command	Function
Switch to Fire 2 Condition	An FCP under Fire Condition 1 is switched to Fire Condition 2
Siren ON/OFF	The siren is switched on/off at all stations
Restart	FCP is rebooted.
Sync Time	The time is synchronised with the Intellect server time
Extend time till “Fire 2 Cond”	The Transition Time for FCPs under Fire Condition 1 to go into Fire Condition 2 is extended.
Beeper OFF	Stops beepers at all stations
Reset “Fire Conditions”	Deletes information about registered fires at all stations
Get Current Time	The FCP time is clocked to the Intellect server time

Note. The “Switch to Fire 2 Condition”, “Siren OFF”, “Extend Time till Fire 2 Cond” and “Reset Fire Conditions” commands for a station are run from the function menus of any other network FCP.