Galaxy Dimension v.2 Integration Module Settings Guide

ACFA PSIM 1.0

Last update 08/30/2022

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1 Introduction into Galaxy Dimension v.2 Integration Module Settings Guide

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1.1 Purpose of the document

The *Galaxy Dimension v.2* Integration Module Settings Guide is an informational reference manual designed for configuration specialists and operators of the *Galaxy Dimension v.2* module. This module is part of the *ACFA PSIM* software package.

This Guide contains the following material:

1. general information about the *Galaxy Dimension v.2* integration module
2. configuration of the *Galaxy Dimension v.2* integration module
3. operation of the *Galaxy Dimension v.2* integration module.

1.2 General information about the Galaxy Dimension v.2 integration module

The *Galaxy Dimension v.2* integration module is a component of the *ACFA PSIM* software package and designed for interaction with the the *Galaxy Dimension v.2* system (produced by Honeywell, Inc.).

ACFA PSIM interacts with the following components of the *Galaxy Dimension v.2* system:

1. *Galaxy Dimension v.2* control panel.
2. MK7 keyboard.
3. Security zone.
4. Group.
5. Door control module.
6. Output.

Note.

For more information about components of the *Galaxy Dimension v.2* system, refer to the official documentation of the *Galaxy Dimension v.2* control panel.

The *Galaxy Dimension v.2* integration module performs the following functions:

1. Monitoring of the the *Galaxy Dimension v.2* system.
2. Control of the the *Galaxy Dimension v.2* system.

Before configuring the *Galaxy Dimension v.2* integration module, do the following:

1. Install *Galaxy Dimension v.2* hardware on the secured object.
2. Configure functional of the fire and security alarm of the *Galaxy Dimension v.2* system (refer to the documentation of the *Galaxy Dimension v.2* control panel).

   Note.

   The *Galaxy Dimension v.2* integration module is configured using the settings specified at this step.

3. Configure the list of *ACFA PSIM* users.

Note.

The user list can be configured through the basic version of *ACFA PSIM* (simplified configuration) or by using the *Access Manager* service module (advanced configuration). Information on configuring the user list is presented in the software's reference documentation.

2 Supported hardware and licensing of the Galaxy Dimension v.2 integration module

Manufacturer	Honeywell Systems Group Video and Access Control Solutions Aston Fields Road Whitehouse Industrial Estate Runcorn Cheshire WA7 3DL United Kingdom Tel: +44 (0)8448 000 235 Fax: + 44 (0)01928 754050 Email: sales.video.uk@honeywell.com www.security.honeywell.com
Integration type	Low-level protocol
Equipment connection	RS-232, Ethernet

Supported equipment

Equipment	Function	Features
Galaxy GD-48	Control panel	8 independent protected areas up to 48 detection zones (16 zones on-board) up to 8 doors up to 100 card holders per system 19 weekly schedules supports up to 8 keypads Support for 1 graphical touch-screen keypad Individual AC (500 events) and FA (1,000 events) event logs Supports several communications options (PSTN, ISDN, Ethernet) Up to 8 Audio Verification (listen-in) channels Compliant to all relevant Russian and European standards Fully compatible with existing Galaxy range

Equipment	Function	Features
Galaxy GD-96	Control panel	16 independent protected areas up to 96 detection zones (16 zones on-board) up to 32 doors up to 250 card holders per system 35 weekly schedules supports up to 16 keypads Support for 2 graphical touch-screen keypads Individual AC (1,000 events) and FA (1,500 events) event logs Supports several communications options (PSTN, ISDN, Ethernet) Up to 16 Audio Verification (listen-in) channels Compliant to all relevant Russian and European standards Fully compatible with existing Galaxy range
Galaxy GD-264	Control panel	Up to 520 zones Control of access for 64 doors Up to 1000 card holders per system 67 weekly schedules Supports up to 16 keypads Supports for 2 graphical touch-screen keypads Individual ACS (1,000 events) and FAS (1,500 events) event logs Supports several communications options (PSTN, ISDN, Ethernet) Up to 32 Audio Verification (listen-in) channels Compliant to all relevant Russian and European standards Fully compatible with existing Galaxy range
Galaxy GD-520	Control panel	Up to 520 detection zones Control of access for 64 doors Up to 1000 card holders per system 67 weekly schedules Supports up to 32 keypads Supports for 4 graphical touch-screen keypads Individual ACS (1,000 events) and FAS (1,500 events) event logs Supports several communications options (PSTN, ISDN, Ethernet) Up to 32 Audio Verification (listen-in) channels Compliant to all relevant Russian and European standards Fully compatible with existing Galaxy range

Equipment	Function	Features
DCM	Access controller	Up to 2 doors controlled (up to 64 per system). Up to 999 users (card holders). Separate Access event log (up to 1000 events). User's access controlled by access templates and group set status (armed/disarmed). Up to 32 yearly holiday schedule Area behind a door is unset automatically upon access if user has authority. This prevents false alarms due to failure to unset. Wiegand compatiblilty Gives the flexibility to work with a huge range of reader and card technologies up to 40 bits. Allows compatibility to retrofit existing installations Compatible with Wiegand keypads that use 8-bit burst mode

Protection
1 COM port, in fact – any one Galaxy GD control panel.

3 Configuring the Galaxy Dimension v.2 integration module

3.1 Procedure for configuring the Galaxy Dimension v.2 integration module

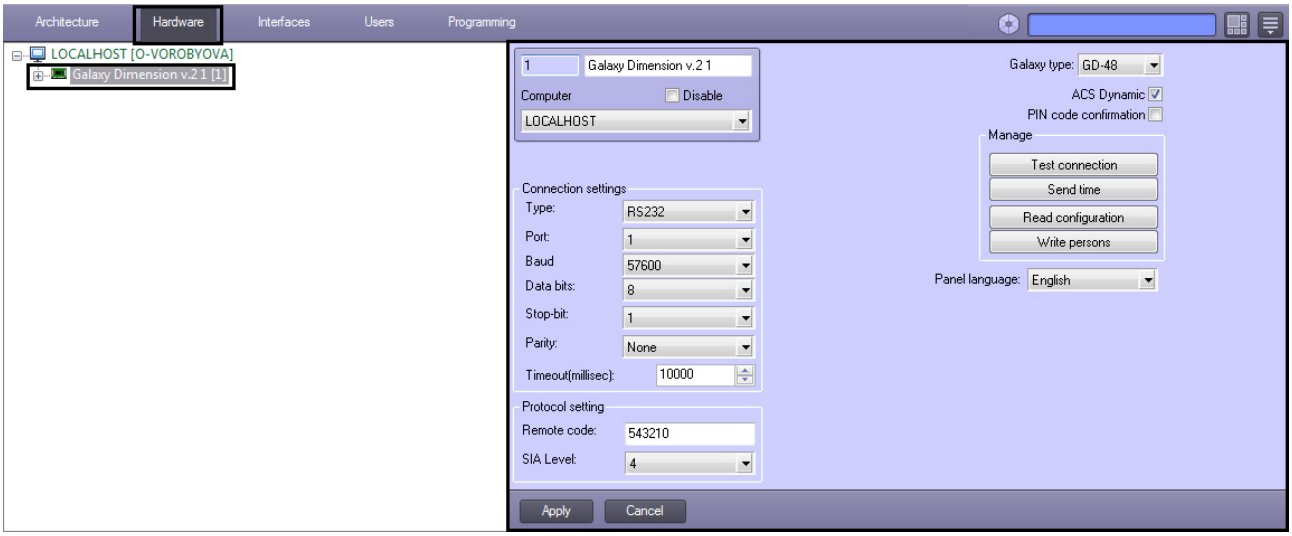
The *Galaxy Dimension v.2* integration module is configured as follows:

1. Configure interaction between *ACFA PSIM* and the *Galaxy Dimension v.2* control panel.
2. Configure the MK7 keypad, which will be used to configure and control the *Galaxy Dimension v.2* control panel.
3. Configure *Galaxy Dimension v.2* security zones.
4. Configure *Galaxy Dimension v.2* groups.
5. Configure *Galaxy Dimension v.2* outputs.
6. Configure *Galaxy Dimension v.2* door control modules.
7. Configure *Galaxy Dimension v.2* input-output modules.
8. Configure *Galaxy Dimension v.2* readers.

3.2 Configuring interaction between ACFA PSIM and the Galaxy Dimension v.2 control panel

3.2.1 Procedure for configuring interaction between ACFA PSIM and the Galaxy Dimension v.2 control panel

Interaction between *ACFA PSIM* and the *Galaxy Dimension v.2* control panel is configured through the settings panel of the **Galaxy Dimension v.2** object. This object is created from the **Computer** object on the **Hardware** tab of the **System settings** dialog box.



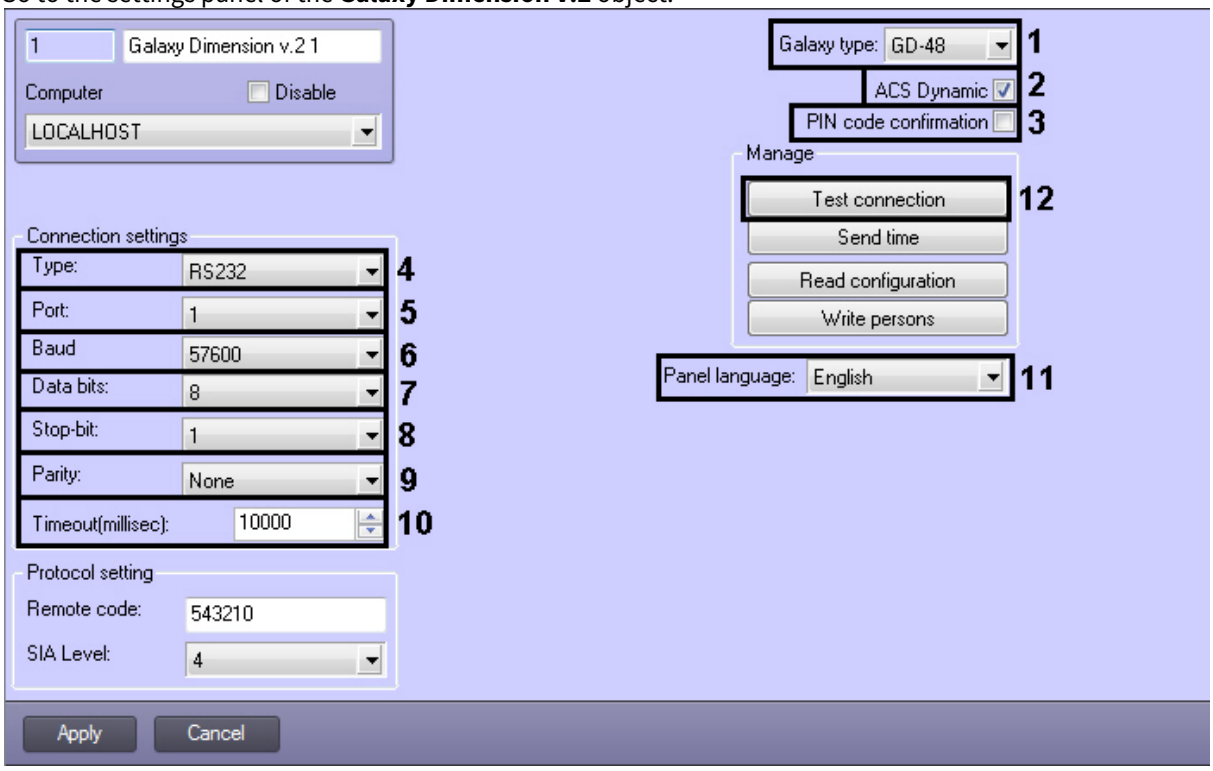
Interaction between *ACFA PSIM* and the *Galaxy Dimension v.2* control panel is configured as follows:

1. Configure the connection between *ACFA PSIM* and the *Galaxy Dimension v.2* control panel.
2. Configure the data exchange protocol used by *ACFA PSIM* and the *Galaxy Dimension v.2* control panel.
3. Synchronization of the *Galaxy Dimension v.2* control panel and *ACFA PSIM* software package.

3.2.2 Configuring the connection between ACFA PSIM and the Galaxy Dimension v.2 control panel

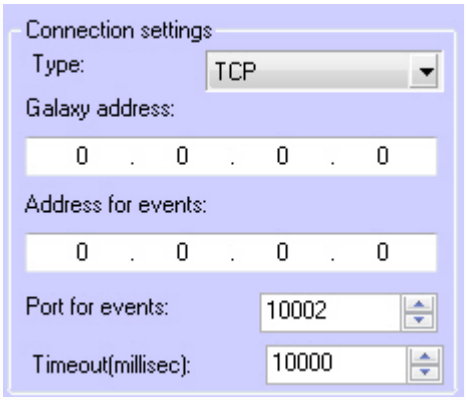
The connection between *ACFA PSIM* and the *Galaxy Dimension v.2* control panel is configured as follows:

1. Go to the settings panel of the **Galaxy Dimension v.2** object.



2. From the **Galaxy type:** drop-down list select the type of connected control panel (**1**).
3. Set the **ACS Dynamic** checkbox for dynamic sending configuration to the *Galaxy Dimension v.2* control panel (**2**).
4. Set the **PIN code confirmation** checkbox if it's required to confirm operations using PIN code (**3**).
5. From the **Type:** drop-down list select the type of connection between the *Galaxy Dimension v.2* control panel and the *Axxon PSIM* Server (**4**).
6. From the **Port:** drop-down list, select the COM port of the *Axxon PSIM* Server to be used to connect with the *Galaxy Dimension v.2* control panel (**5**).

> **Note.**
>
> If the *TCP* type of connection is selected then the corresponding IP-address of the *Galaxy Dimension v.2* control panel, IP-address of receiving events from the control panel, number of port through which events should be received and connection timeout in milliseconds are to be specified.



7. From the **Baud:** drop-down list, select the data exchange rate between the *Axxon PSIM* Server and the *Galaxy Dimension v.2* control panel. This parameter is expressed in bits per second (**6**).
8. From the **Data bits:** drop-down list, select the number of data bits to be coded by a single transition in signal for data exchange (**7**).
9. From the **Stop-bit:** drop-down list, select the number of stop bits for data exchange over the COM port (**8**).
10. From the **Parity:** drop-down list, select the necessary parity for data exchange (**9**).
11. In the **Timeout (millisec)**: field enter the time period in milliseconds during which check of connection with the *Galaxy Dimension v.2* control panel is performing (**10**).
12. From the **Panel language:** drop-down list select the language of the *Galaxy Dimension v.2* control panel (**11**).

> **Warning!**
>
> Only English and Polish panel languages are supported. The language must first be set on the panel itself or in the settings of the Galaxy software (Frontshell) using the keyboard emulator.
> **Important:** when changing the language, the panel must be rebooted (full shutdown for a while), otherwise the panel language will be changed, but the events will remain in the current language installed on the panel.

13. To save changes, click **Apply**.
14. To test the established connection click the **Test connection** button (**12**).

Configuring of the connection between *ACFA PSIM* and the *Galaxy Dimension v.2* control panel is completed.

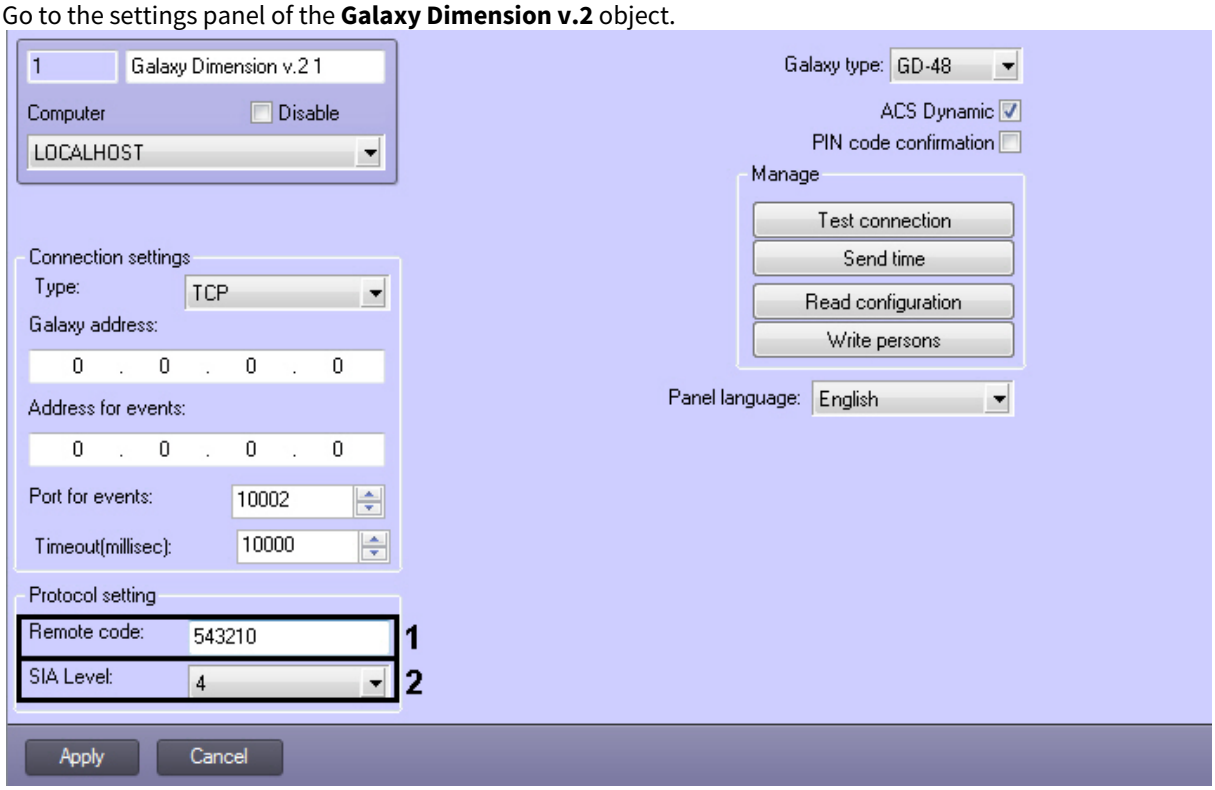
3.2.3 Configuring the data exchange protocol with the Galaxy Dimension v.2

Data exchange between the *ACFA PSIM* server and the *Galaxy Dimension v.2* control panel is carried out using the SIA protocol.

> **Note.**
>
> For more information on protocols used in the *Galaxy Dimension v.2* system, refer to the official documentation of the *Galaxy Dimension v.2* control panel.

The SIA protocol is configured as follows:

1. Go to the settings panel of the **Galaxy Dimension v.2** object.



2. In the **Remote code:** field, enter the password used to connect the *Axxon PSIM* Server to the *Galaxy Dimension v.2* control panel. This password must match the password used to remotely access the panel (**1**).

> **Note.**
>
> For more information on passwords in the *Galaxy Dimension v.2* system, refer to the official documentation of the *Galaxy Dimension v.2* system.

3. From the **SIA level:** drop-down list, select the value corresponding to the required level of interaction between the *Axxon PSIM* Server and the *Galaxy Dimension v.2* control panel over the SIA protocol (**2**).

SIA level	**Description of the level of interaction between the Axxon PSIM Server and the *Galaxy Dimension v.2* control panel**
1	Transmits basic information on the event
2	Same as level 1, but including transmission of advanced event codes
3	Same as level 2, but including transmission of text descriptions of events
4	Same as level 3, but also allows reception of commands for managing the control panel

> **Note.**
>
> Full interaction (monitoring, management) between the *Axxon PSIM* Server and the *Galaxy Dimension v.2* control panel is only provided through the 4th level of SIA.

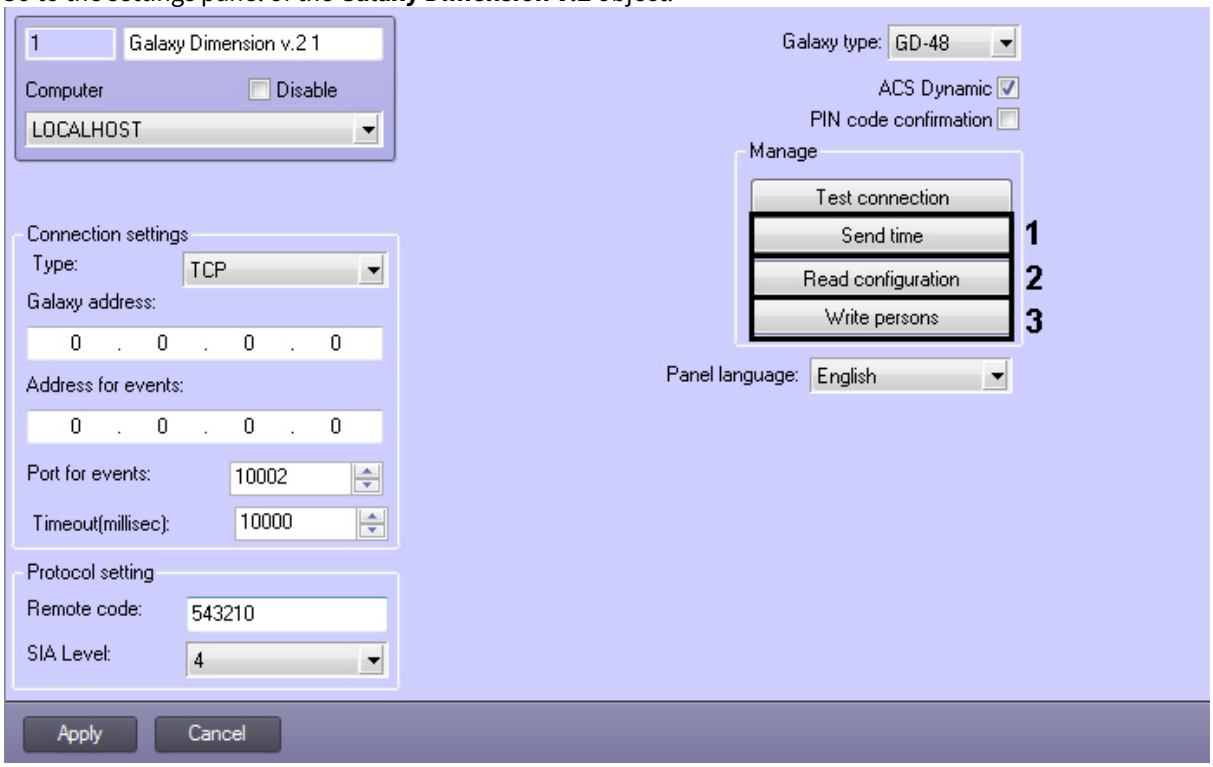
4. Click **Apply** to save settings.

Configuration of the SIA protocol is completed.

3.2.4 Synchronization of the Galaxy Dimension v.2 control panel and ACFA PSIM software package

To synchronize the *Galaxy Dimension v.2* control panel and *ACFA PSIM* software package, do the following:

1. Go to the settings panel of the **Galaxy Dimension v.2** object.

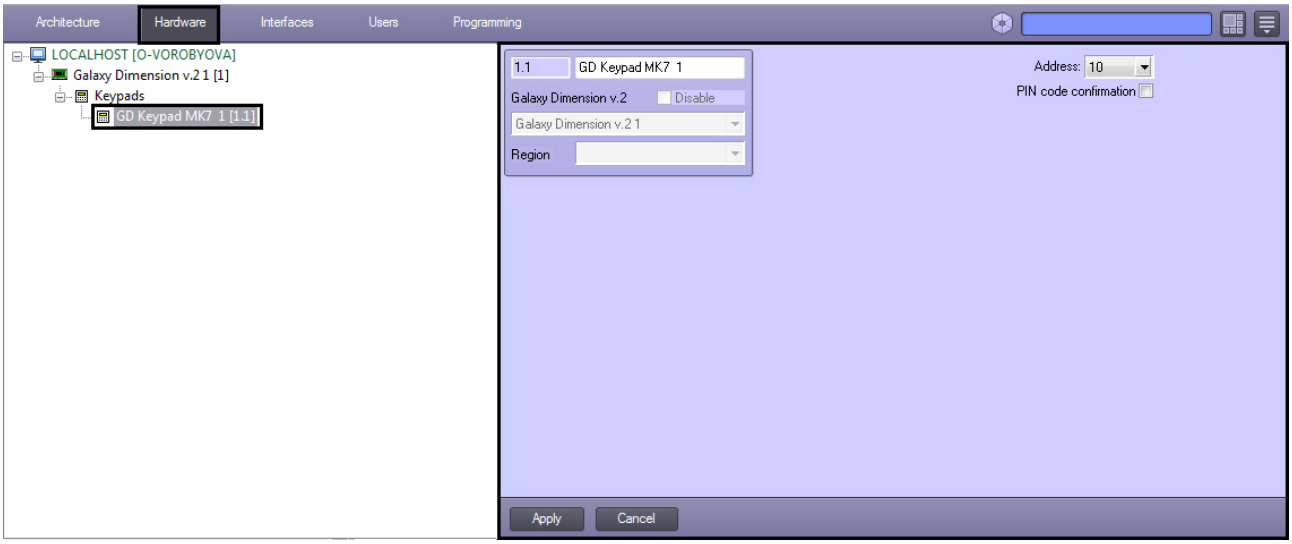


2. Click the **Send time** button to synchronize system time of the *Axxon PSIM* Server and internal time of the *Galaxy Dimension v.2* control panel (**1**).
3. Click the **Read configuration** button to read configuration of the *Galaxy Dimension v.2* control panel (**2**). As a result the standard window of files selection will open, it is required to select the corresponding file with .mdb resolution from which configuration will be read.
4. Click the **Write persons** to write users to the *Galaxy Dimension v.2* control panel (**3**).

To save changes click the **Apply** button.

3.3 Configuring the Galaxy Dimension v.2 keypads

The MK7 keyboard is configured through the settings panel of the **GD Keypad MK7** object. This object is created from the **Galaxy Dimension v.2** object on the **Hardware** tab of the **System settings** dialog box.

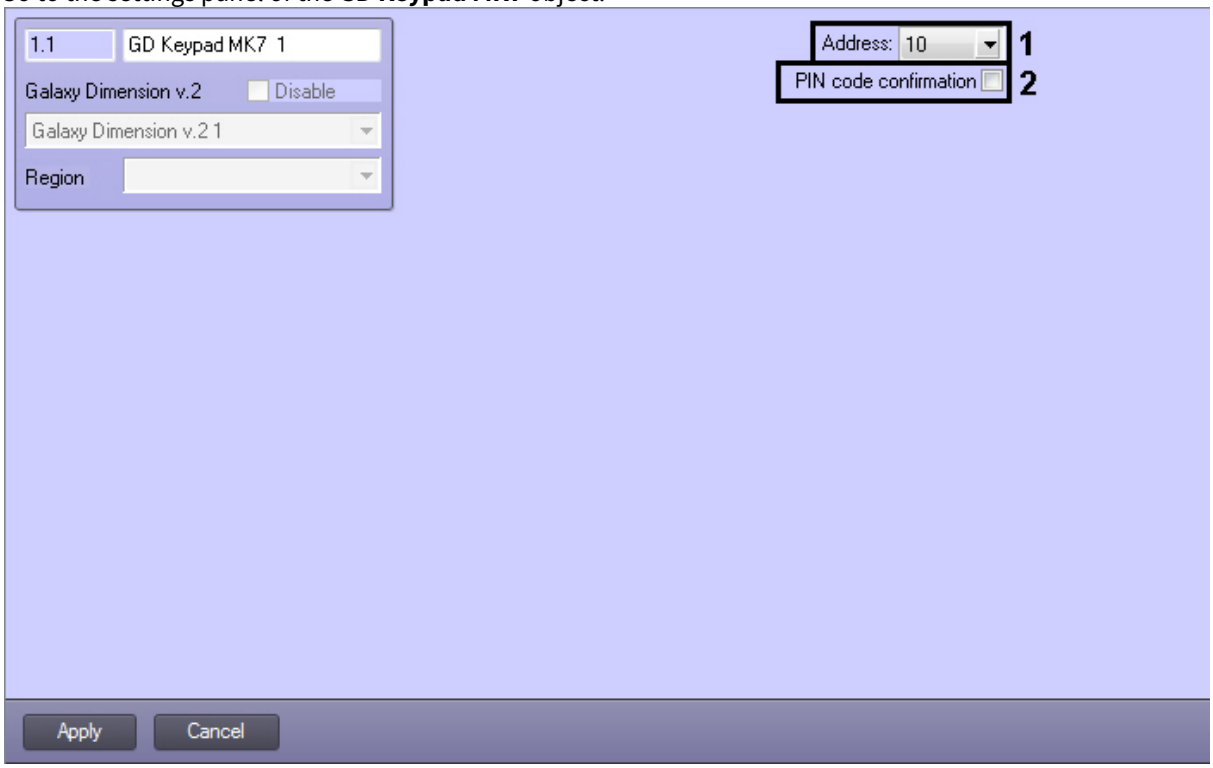


Note.

The **GD Keypad MK7** object must match the *Galaxy Dimension v.2* panel to which the keypad is connected.

The MK7 keyboard is configured as follows:

1. Go to the settings panel of the **GD Keypad MK7** object.

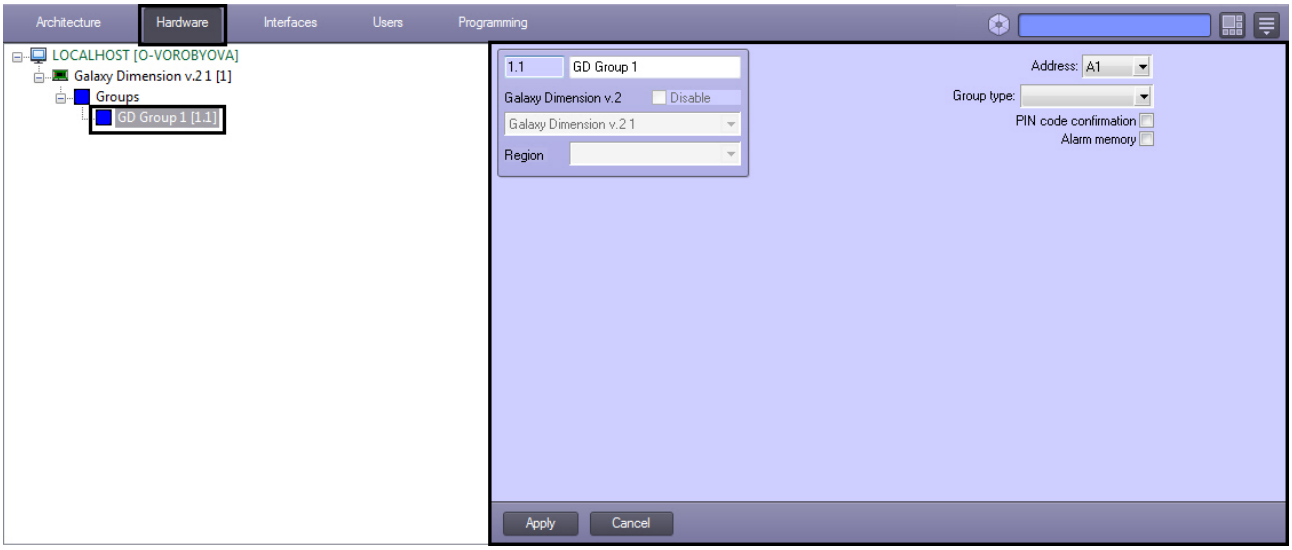


2. From the **Address** drop-down list select the address displayed for the specific keypad into the operator's menu of the *Galaxy Dimension v.2* control panel (**1**).
3. Set the **PIN code confirmation** checkbox if it's required to confirm operations using PIN code (**2**).
4. Click **Apply** to save changes.
5. Repeat steps 1-4 for all MK7 keypads connected to the panel.

Configuration of the MK7 keypad is completed.

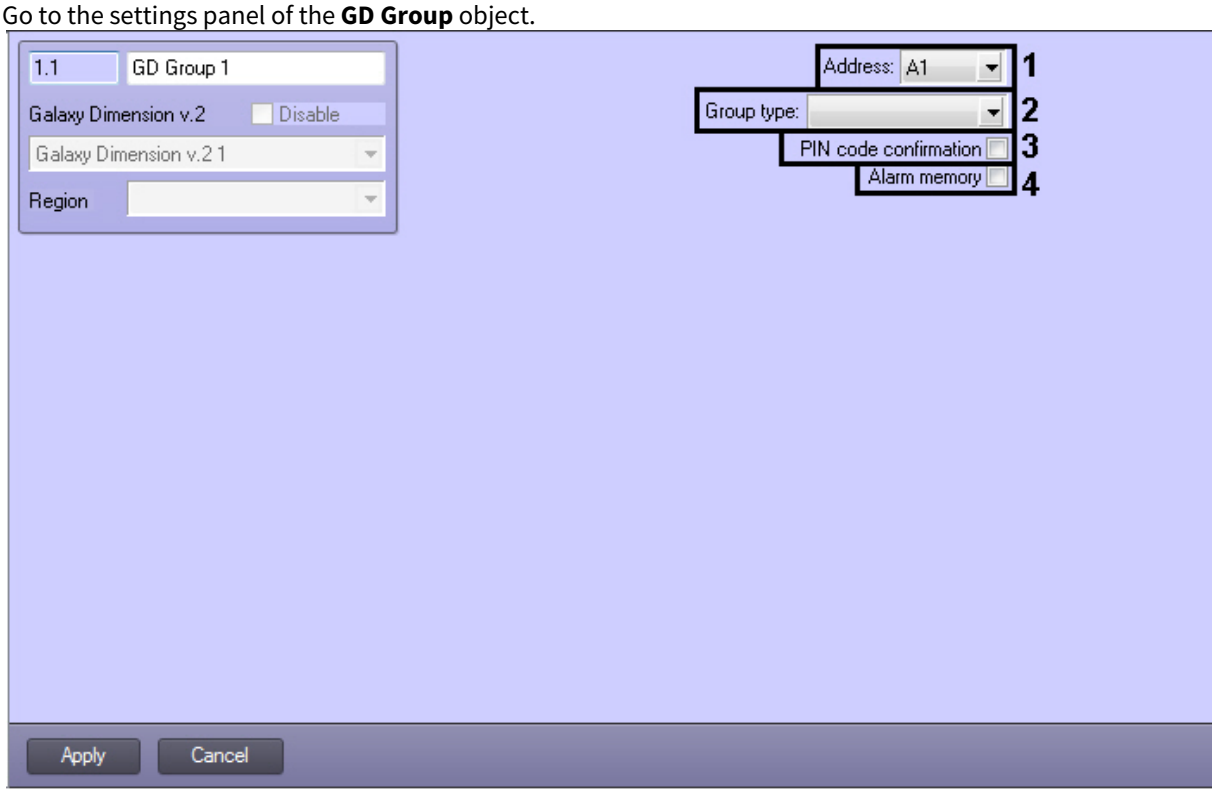
3.4 Configuring the Galaxy Dimension v.2 groups

The *Galaxy Dimension v.2* control panel groups are configured in the settings panel of the **GD Group** object. This object is created from the **Galaxy Dimension v.2** object on the **Hardware** tab of the **System settings** dialog box.



The *Galaxy Dimension v.2* groups are configured as follows:

1. Go to the settings panel of the **GD Group** object.



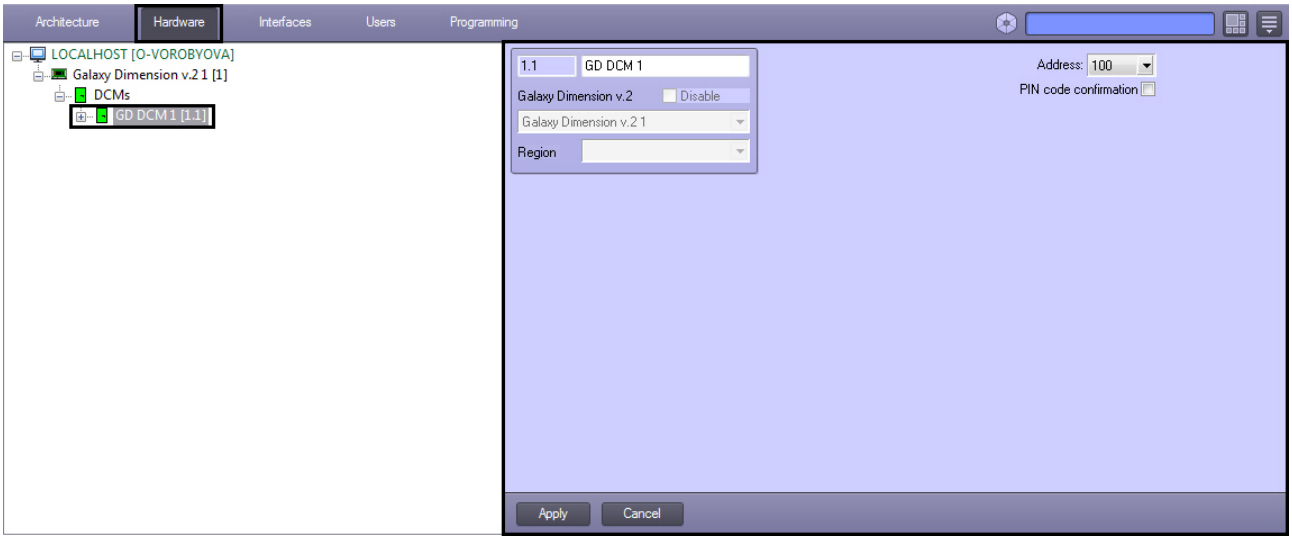
2. From the **Address** drop-down list, select the address displayed for the specific group in the operator's menu of the *Galaxy Dimension v.2* control panel.

3. From the **Group type:** drop-down list select the type of the secured area (**2**).
4. Set the **PIN code confirmation** checkbox if it's required to confirm operations using PIN code (**3**).
5. Set the **Alarm memory** checkbox if it's required to store alarm until their proceccing by operator (4).
6. Click **Apply** button to save changes.

Configuration of the *Galaxy Dimension v.2* groups is completed.

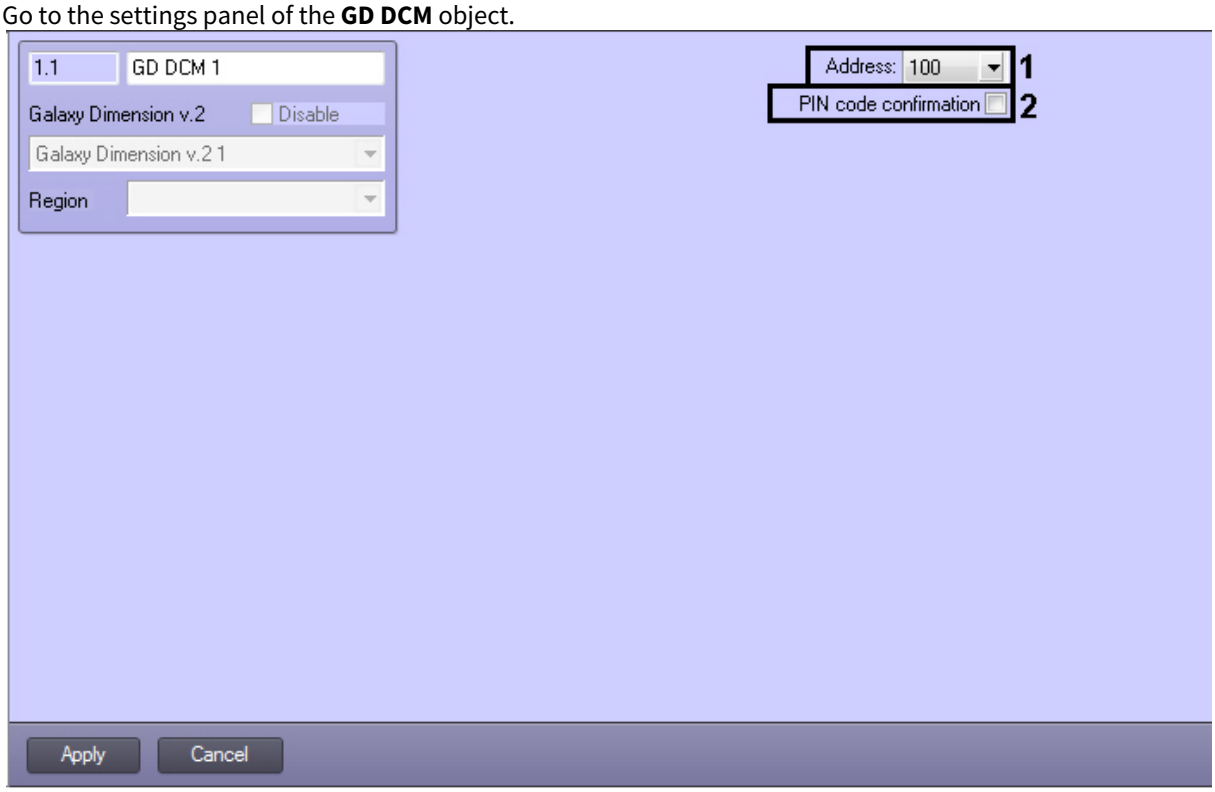
3.5 Configuring the Galaxy Dimension v.2 control modules

Door control modules of the *Galaxy Dimension v.2* control panel are configured in the settings panel of the **GD DCM** object. This object is created from the **Galaxy Dimension v.2** object on the **Hardware** tab of the **System settings** dialog box.



The *Galaxy Dimension v.2* control modules are configured as follows:

1. Go to the settings panel of the **GD DCM** object.

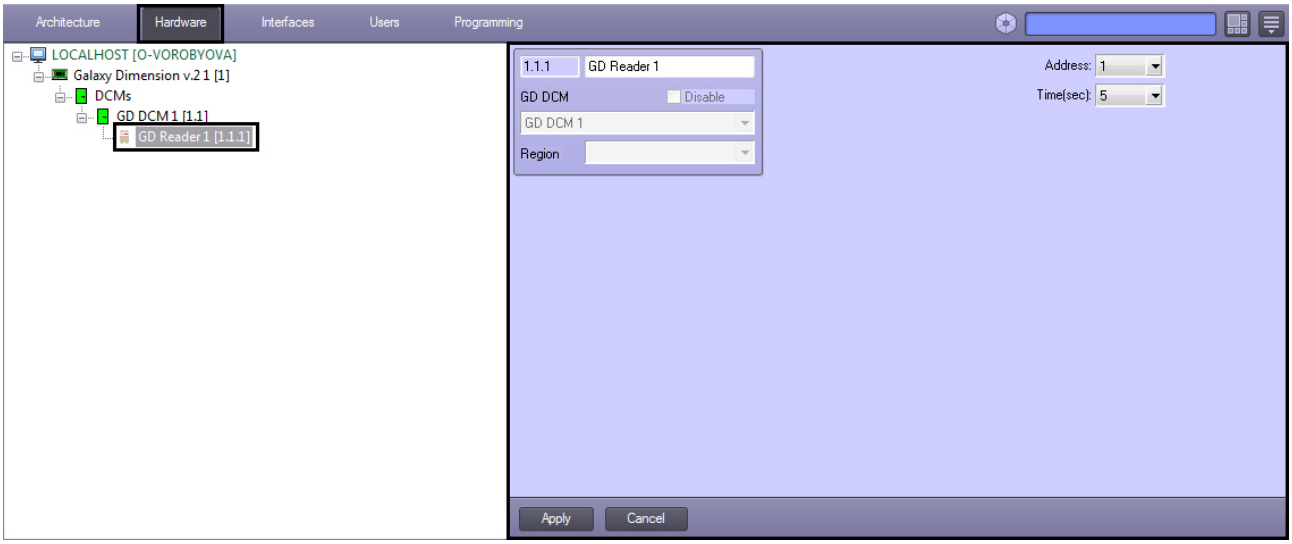


2. From the **Address** drop-down list select the address displayed for the specific control module into the operator's menu of the *Galaxy Dimension v.2* control panel (**1**).
3. Set the **PIN code confirmation** checkbox if it's required to confirm operations using PIN code (**2**).
4. Click **Apply** button to save changes.
5. Repeat steps 1-4 for all control modules of the panel.

Configuration of the *Galaxy Dimension v.2* control modules is completed.

3.6 Configuring the Galaxy Dimension v.2 readers

The *Galaxy Dimension v.2* control panel readers are configured in the settings panel of the **GD Reader** object. This object is created from the **GD DCM** object on the **Hardware** tab of the **System settings** dialog box.



The *Galaxy Dimension v.2* readers are configured as follows:

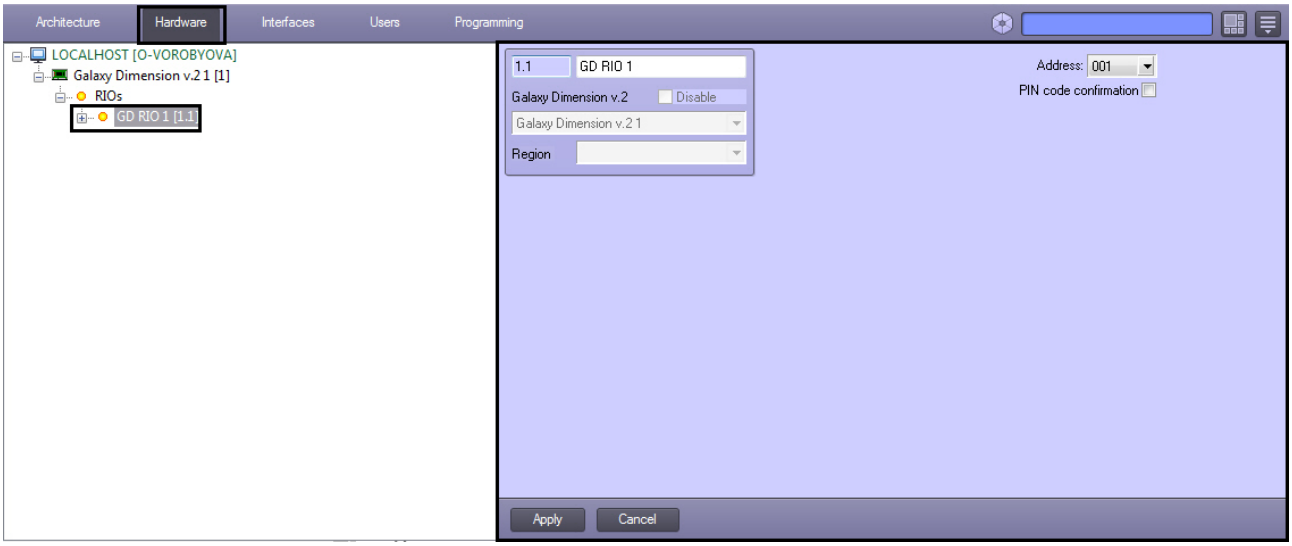
1. Go to the settings panel of the **GD Reader** object.

2. From the **Address:** drop-down list select the address displayed for the specific reader into the operator's menu of the *Galaxy Dimension v.2* control panel (**1**).
3. From the **Time (sec):** drop-down list select the time period in seconds after which the door control module will change its state (**2**).
4. Click **Apply** to save changes.

Configuration of the *Galaxy Dimension v.2* readers is completed.

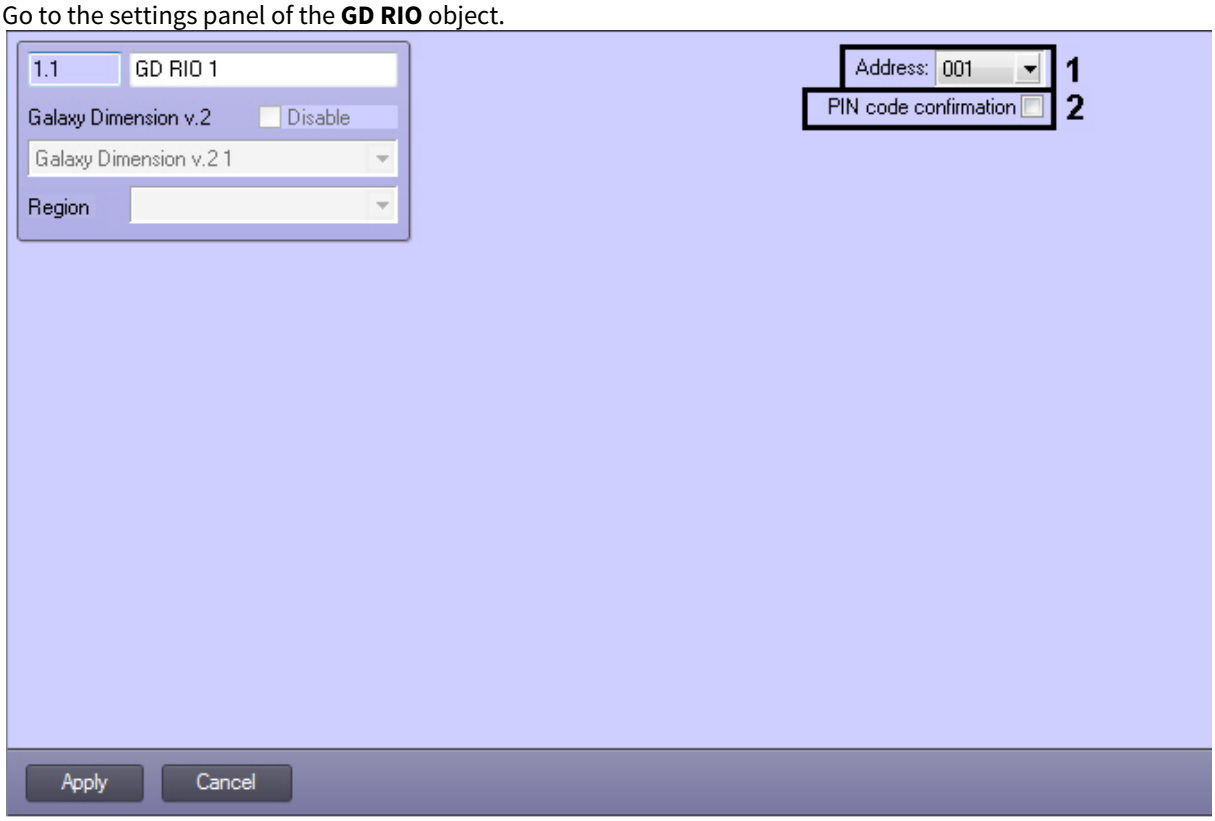
3.7 Configuring the Galaxy Dimension v.2 input-output modules

Input-output modules of the *Galaxy Dimension v.2* control panel are configured in the settings panel of the **GD RIO** object. This object is created from the **Galaxy Dimension v.2** object on the **Hardware** tab of the **System settings** dialog box.



The *Galaxy Dimension v.2* input-output modules are configured as follows:

1. Go to the settings panel of the **GD RIO** object.



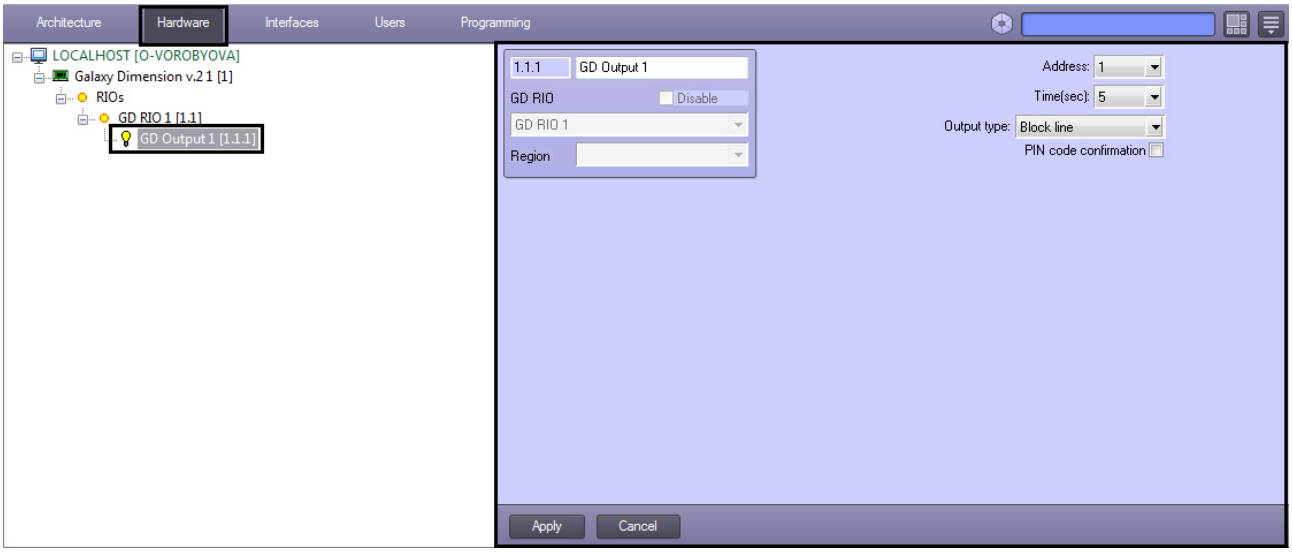
2. From the **Address** drop-down list select the address displayed for the specific input-output module into the operator's menu of the *Galaxy Dimension v.2* control panel (**1**).
3. Set the **PIN code confirmation** checkbox if it's required to confirm operations using PIN code (**2**).

4. Click **Apply** button to save changes.

Configuration of the *Galaxy Dimension v.2* input-output modules is completed.

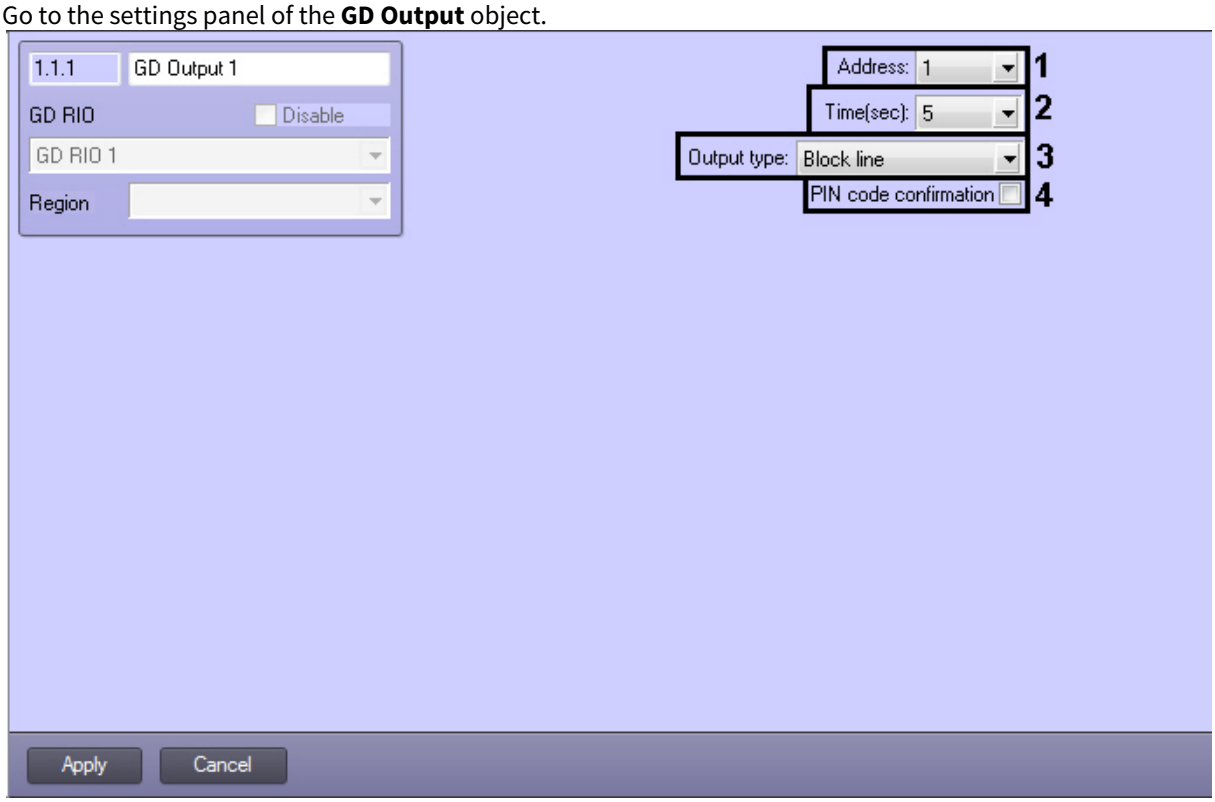
3.8 Configuring the Galaxy Dimension v.2 outputs

The *Galaxy Dimension v.2* outputs are configured in the settings panel of the **GD Output** object. This object is created from the **GD RIO** object on the **Hardware** tab of the **System settings** dialog box.



The *Galaxy Dimension v.2* outputs are configured as follows:

1. Go to the settings panel of the **GD Output** object.

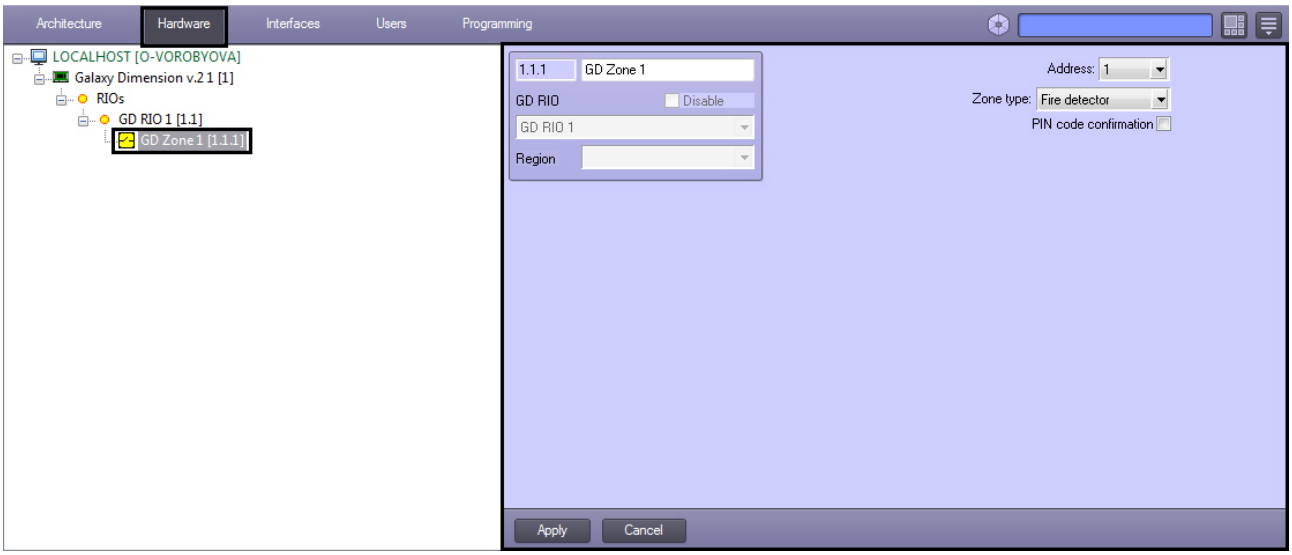


2. From the **Address:** drop-down list select the address displayed for the specific output into the operator's menu of the *Galaxy Dimension v.2* control panel (**1**).
3. From the **Time (sec):** drop-down select the time period during which exit will be granted (**2**).
4. From the **Output type:** drop-down list select the type of configured output (**3**).
5. Set the **PIN code confirmation** checkbox if it's required to confirm operations using PIN code (**4**).
6. Click **Apply** to save changes.

Configuration of the *Galaxy Dimension v.2* outputs is completed.

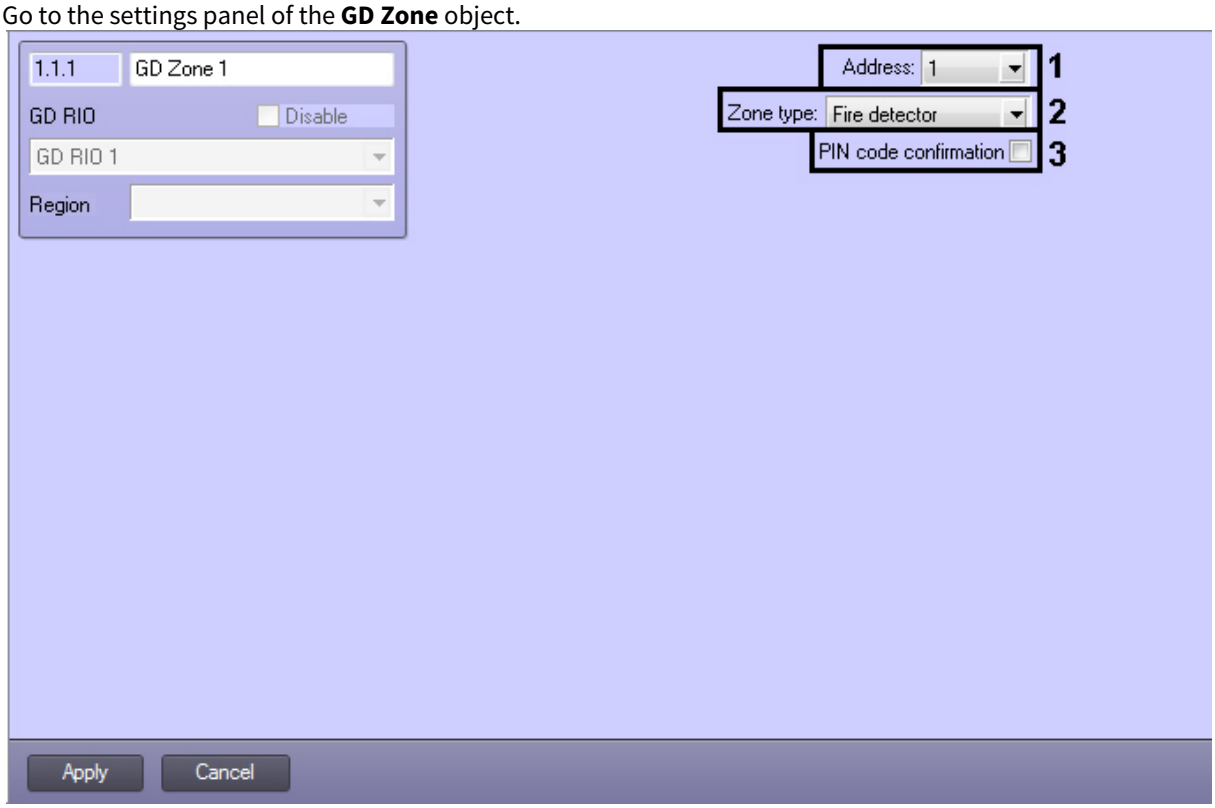
3.9 Configuring the Galaxy Dimension v.2 security zones

The *Galaxy Dimension v.2* security zones are configured in the settings panel of the **GD Zone** object. This object is created from the **GD RIO** object on the **Hardware** tab of the **System settings** dialog box.



The *Galaxy Dimension v.2* security zones are configured as follows:

1. Go to the settings panel of the **GD Zone** object.



2. From the **Address:** drop-down list select the address displayed for the specific security into the operator's menu of the *Galaxy Dimension v.2* control panel (**1**).
3. From the **Zone type:** drop-down list select type of configured secured zone (**2**).
4. Set the **PIN code confirmation** checkbox if it's required to confirm operations using PIN code (**3**).
5. Click **Apply** to save changes.

Configuring of the *Galaxy Dimension v.2* security zones is completed.

4 Working with the Galaxy Dimension v.2 integration module

4.1 General information about working with the Galaxy Dimension v.2 integration module

The following interface objects are used to operate the *Galaxy Dimension v.2* integration module:

1. **Map**.
2. **Event log**.

Information on how to configure the **Map** and **Event log** interface objects is presented in the document titled Axxon PSIM Software package: Administrator's Guide.

Operation of the specified interface objects is described in detail in the document titled Axxon PSIM Software package: Operator's Guide.

4.2 Control the Galaxy Dimension v.2 group

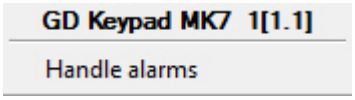
Control the *Galaxy Dimension v.2* group is carried out in the **Map** interface window using the **GD Group** object's menu.

Description of the **GD Group** object's menu commands is given in the table.

Command	Function
Reset	Resets all system alarms
Unset	Disarms group
Part. set	Arms group with zones
Set	Arms group
Abort	Cancels arming
Handle alarm	Processes alarm
Force set	Arms group under the force

4.3 Control the Galaxy Dimension v.2 keypad

Control the *Galaxy Dimension v.2* keypad is carried out in the **Map** interface window using the **GD Keypad MK7** object's menu.

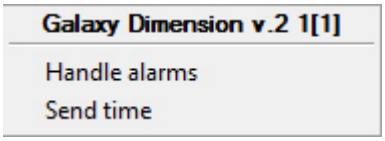


Description of the **GD Keypad MK7** object's menu commands is given in the table.

Command	Function
Handle alarms	Processes system alarms

4.4 Control the Galaxy Dimension v.2 control panel

Control the *Galaxy Dimension v.2* control panel is carried out in the **Map** interface window using the **Galaxy Dimension v.2** object's menu.



Description of the **Galaxy Dimension v.2** object's menu commands is given in the table.

Command	Function
Handle alarms	Processes system alarms
Send time	Synchronize system time of the *Axxon PSIM* Server and internal time of control panel

4.5 Control the Galaxy Dimension v.2 input-output module

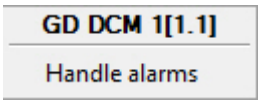
Control the *Galaxy Dimension v.2* input-output module is carried out in the **Map** interface window using the **GD RIO** object's menu.

Description of the **GD RIO** object's menu commands is given in the table.

Command	Function
Handle alarms	Processes system alarms

4.6 Control the Galaxy Dimension v.2 control module

Control the *Galaxy Dimension v.2* control module is carried out in the **Map** interface window using the **GD DCM** object's menu.

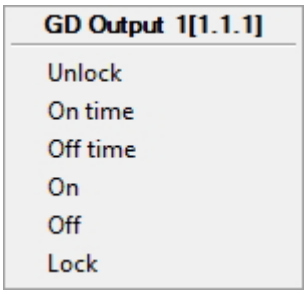


Description of the **GD DCM** object's menu commands is given in the table.

Command	Function
Handle alarms	Processes system alarms

4.7 Control the Galaxy Dimension v.2 output

The *Galaxy Dimension v.2* output is controlled using the **GD Output** object menu in the **Map** interface window.

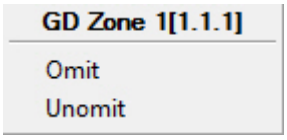


The **GD Output** object menu commands are described in the table.

Command	Function
Unlock	Unlocks the output
On time	Turns the output on for a set time
Off time	Turns the output after a set time
On	Turns the output on
Off	Turns the output off
Lock	Locks the output

4.8 Control the Galaxy Dimension v.2 security zone

Control the *Galaxy Dimension v.2* security zone is carried out in the **Map** interface window using the **GD Zone** object's menu.



Description of the **GD Keypad MK7** object's menu commands is given in the table.

Command	Function
Omit	Disables arming and disarming
Unomit	Enables arming and disarming