Dahua Integration Module Settings Guide

ACFA PSIM 1.1

Last update 09/12/2023

Table of Contents

1 Introduction into Dahua Module Settings Guide....3
1.1 Purpose of the document....3
1.2 General information about the Dahua integration module....3
2 Supported hardware and licensing of the Dahua integration module....4
3 Configuration of the Dahua integration module....5
3.1 Configuring the Dahua parent object....5
3.2 Configuring the Dahua access controller....6
3.3 Configuring the Dahua door....7
4 Working with the Dahua integration module....10
4.1 General information about working with the Dahua module....10
4.2 Managing the Dahua access controller....10
4.3 Managing the Dahua door....10

1 Introduction into Dahua Module Settings Guide

On this page:

- Purpose of the document
- General information about the Dahua integration module

1.1 Purpose of the document

This *Dahua Integration Module Settings Guide* is a reference manual designed for *Dahua m*odule configuration technicians.

This Guide presents the following materials:

1. General information about the *Dahua* integration module.
2. Configuration of the *Dahua* integration module.
3. Working with the *Dahua* integration module.

1.2 General information about the Dahua integration module

The *Dahua* module is a component of an ACS implemented on the basis of *ACFA PSIM*. It is used to perform the following functions:

1. Configuration of the *Dahua* hardware;
2. Interaction between the *Dahua* hardware and *ACFA PSIM*.

> **Note**
>
> Detailed information about the *Dahua* ACS is presented in the official documentation for this system (manufactured by Dahua Technology Co., Ltd.).

Before configuring the *Dahua* ACS integration module, do the following:

1. Install the *Dahua* hardware on the protected facility (for details, see the *Dahua* guide).
2. Connect the *Dahua* ACS hardware to the *Axxon PSIM* Server (for details, see the *Dahua* guide).

2 Supported hardware and licensing of the Dahua integration module

Manufacturer	Dahua Technology Co., Ltd. No.1199, Bin'an Road, Binjiang District, Hangzhou, China P.C:310053 Phone: +86 571 8768 8883 Fax: +86 571 8768 8815 overseas@dahuatech.com https://www.dahuasecurity.com
Integration type	SDK
Equipment connection	Ethernet

Supported hardware

Hardware	Function
All Dahua terminal models. The DHI-ASI7213X-T1, DHI-ASI7223X-A, DHI-ASI1202M, DHI-ASA4214F Dahua terminals have been tested by AxxonSoft's quality control department	Access control terminal
DHI-ASC1202B-D	Access controller
Dahua DHI-ASM202 (installed together with the Dahua ACS)	Control USB reader

Licensing

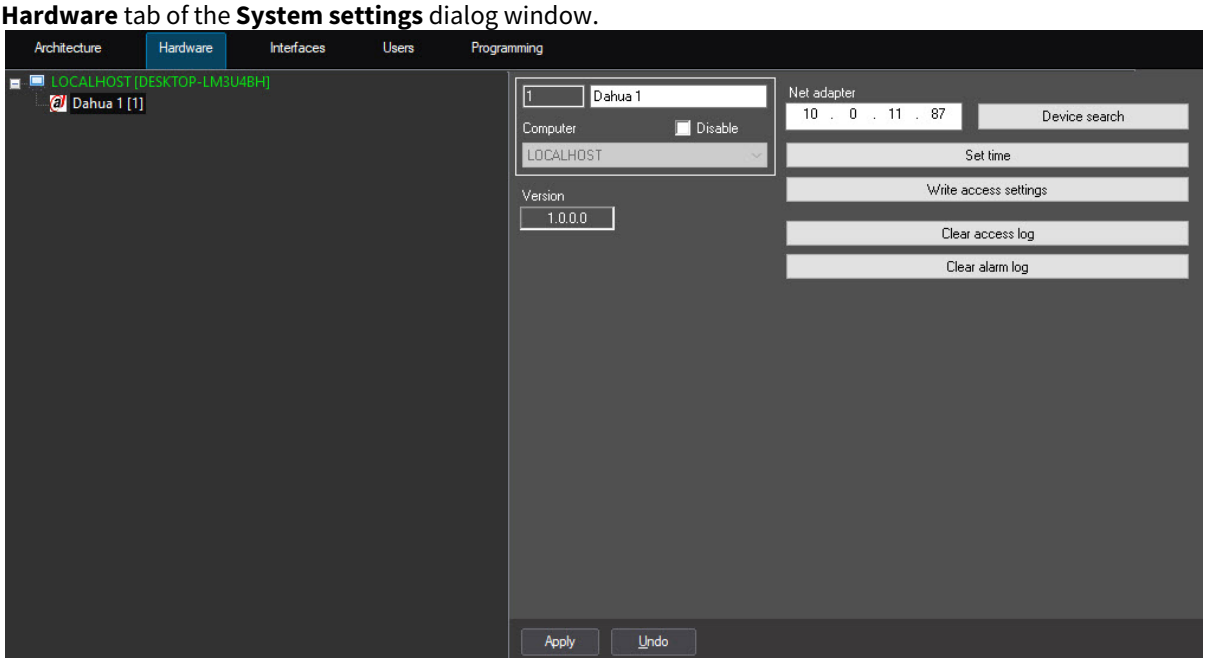
Per 1 terminal.

3 Configuration of the Dahua integration module

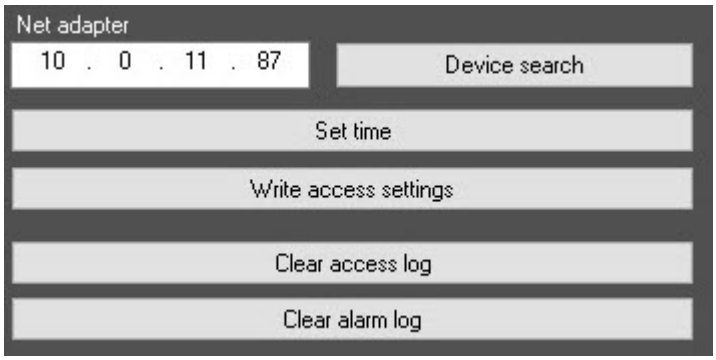
3.1 Configuring the Dahua parent object

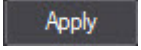
To configure the *Dahua* parent object, do the following:

1. Go to the settings panel of the **Dahua** object that is created on the basis of the **Computer** object on the **Hardware** tab of the **System settings** dialog window.



2. In the **Net adapter** field, specify the IP address of the computer, on which *Axxon PSIM* is installed and to which the *Dahua* devices will be connected.

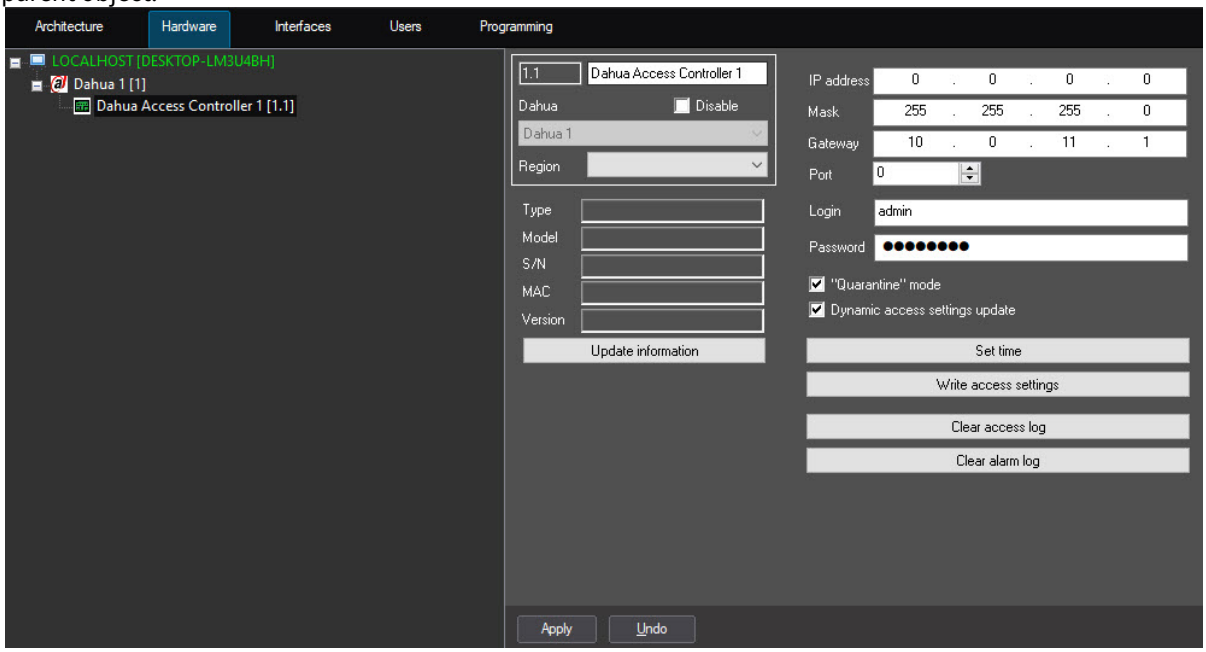


3. Click the **Device search** button to find all *Dahua* devices connected to the Server and automatically build the hardware tree. It is recommended to add devices using the search button.
4. Click the **Set time** button to set the current time of the Server on all *Dahua* devices.
5. Click the **Write access settings** button to write the data of the *Access Manager* module to all *Dahua* devices.
6. Click the **Clear access log** button to clear the events database.
7. Click the **Clear alarm log** button to clear the alarms database.
8. Click the **Apply**  button to save the changes.

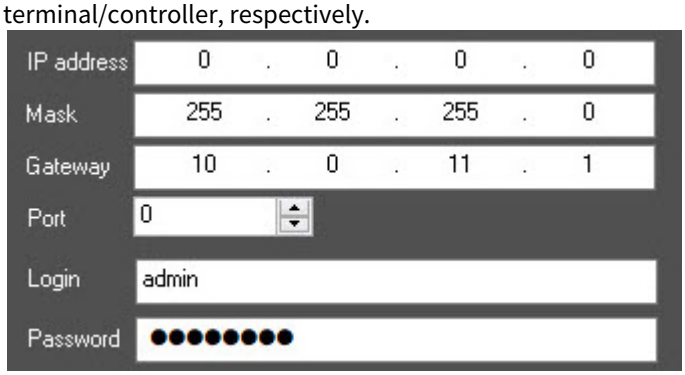
3.2 Configuring the Dahua access controller

To configure the *Dahua* access controller, do the following:

1. Go to the settings panel of the **Dahua Access Controller** object that is created on the basis of the **Dahua** parent object.



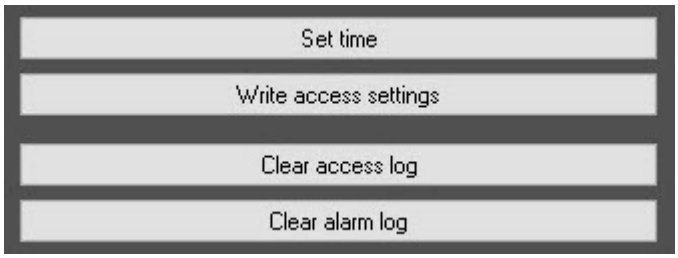
2. In the **IP address**, **Mask**, **Gateway** and **Port** field, enter the IP address, mask, gateway and port of the *Dahua* terminal/controller, respectively.

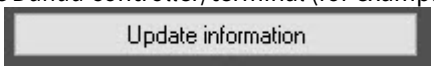


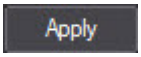
3. In the **Login** and **Password** fields, enter the login and password to connect to the terminal/controller.
4. Set the **"Quarantine" mode** checkbox, if it is necessary to display events with body temperature and presence/absence of a mask on the user's face in the **Event Viewer** interface object.

5. Set the **Dynamic access settings update** checkbox to enable the dynamic data transfer from the *Access Manager* to the *Dahua* controller/terminal. In this case, when user data or access levels are changed, all changes will be automatically sent to the *Dahua* controller/terminal.

6. Click the **Set time** button to set the current time of the Server on the *Dahua* controller/terminal.



7. Click the **Write access settings** button to write the data of the *Access Manager* module to the *Dahua* controller/terminal.
8. Click the **Clear access log** button to clear the events database.
9. Click the **Clear alarm log** button to clear the alarms database.
10. To update the data on the *Dahua* controller/terminal (for example, a failed device has been replaced), click the **Update information** 

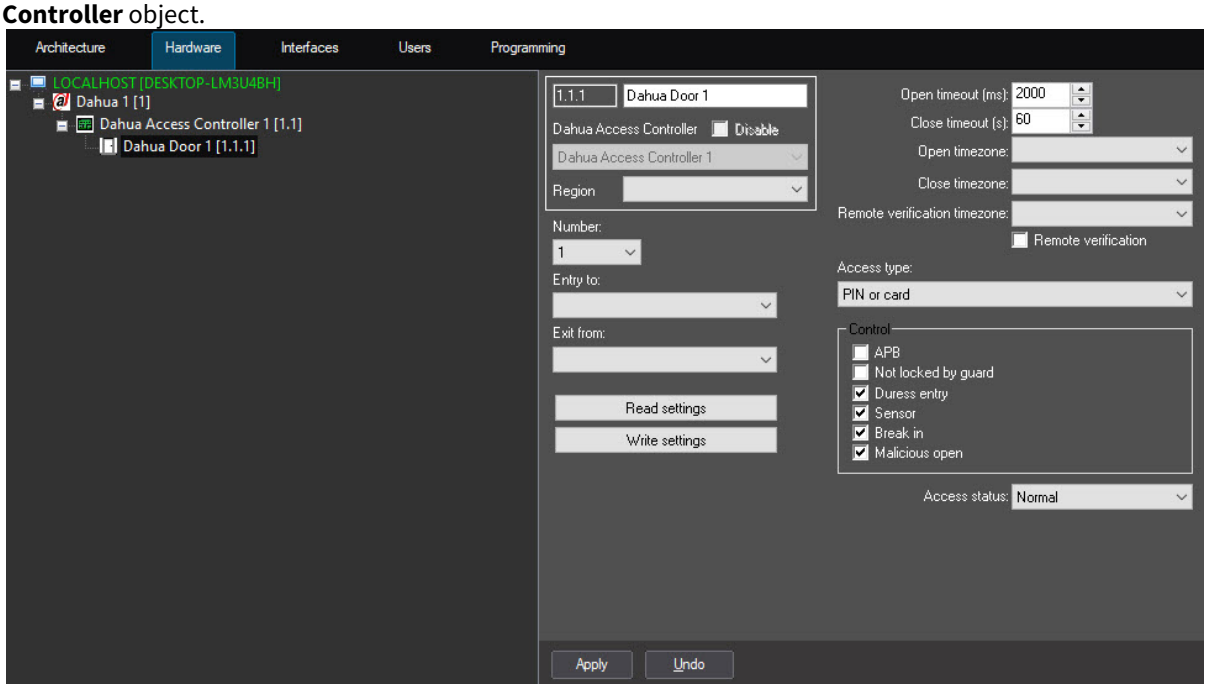
button. The information will be updated if the new *Dahua* device has the same IP address and connection login/password.
11. Click the **Apply** 

button to save the changes.

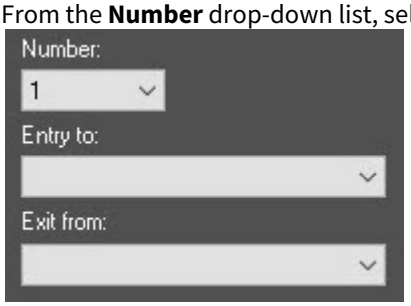
3.3 Configuring the Dahua door

To configure the *Dahua* door, do the following:

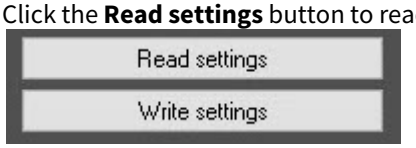
1. Go to the settings panel of the **Dahua Door** object that is created on the basis of the **Dahua Access Controller** object.



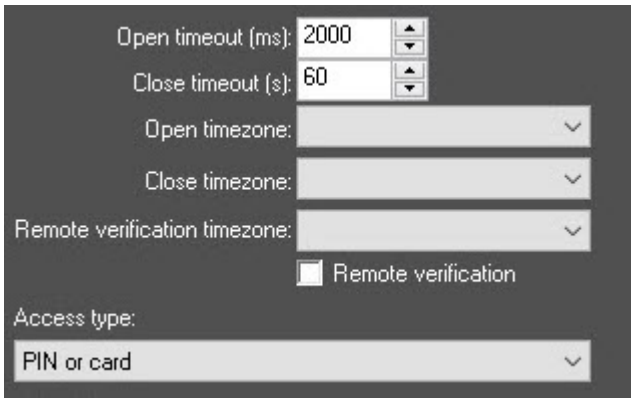
2. From the **Number** drop-down list, select the number of the *Dahua* door.



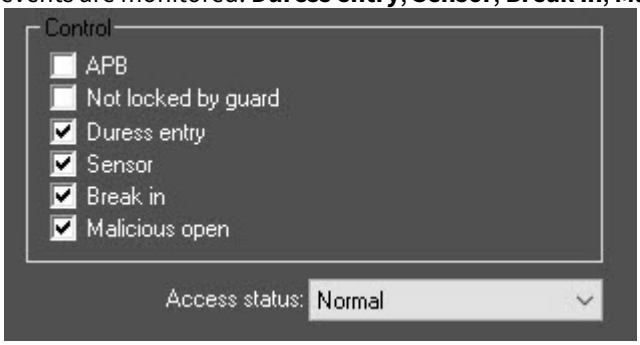
3. From the **Entry to** drop-down list, select the area corresponding to the territory on the exit side of the door.
4. From the **Exit from** drop-down list, select the area corresponding to the territory on the entry side of the door.
5. Click the **Read settings** button to read the configuration from the *Dahua* controller/terminal.

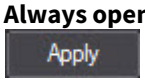


6. Click the **Write settings** button to write the configuration to the *Dahua* controller/terminal.
7. In the **Open timeout (ms)** field, specify in milliseconds for how long the *Dahua* door will be opened. The default value is **2000 ms**.



8. In the **Close timeout (s)** field, specify in seconds the time after which the opened door will close. The default value is **60 s**.
9. From the **Open timezone** drop-down list, select which timezone will be opened.
10. From the **Close timezone** drop-down list, select which timezone will be closed.
11. By default, remote verification is disabled. To enable it, set the **Remote verification** checkbox.
12. From the **Remote verification timezone** drop-down list, select a remote verification timezone.
13. From the **Access type** drop-down list, select the required access type. The default value is **PIN or card**.
14. In the **Control** section, select the events that you want to monitor by setting the checkboxes next to them: **APB**, **Not locked by guard**, **Duress entry**, **Sensor**, **Break in**, **Malicious open**. By default, the following events are monitored: **Duress entry**, **Sensor**, **Break in**, **Malicious open**. Other events aren't monitored.



15. From the **Access status** drop-down list, select the access status for the *Dahua* door: **Normal** (default), **Always closed**, **Always open**.
16. Click the **Apply** 

button to save the settings.

> **Note**
>
> The supported settings of the *Dahua* terminal/controller door depend on the device features (see manufacturer's documentation).

4 Working with the Dahua integration module

4.1 General information about working with the Dahua module

The following interface objects are used for *Dahua* integration module operation:

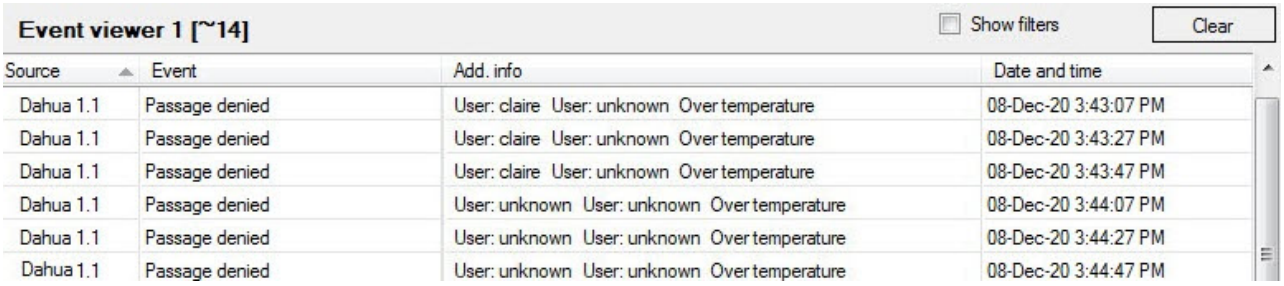
1. **Map**.
2. **Event viewer**.

For a detailed information on configuring these interface objects, see *Axxon PSIM* Administrator's Guide.

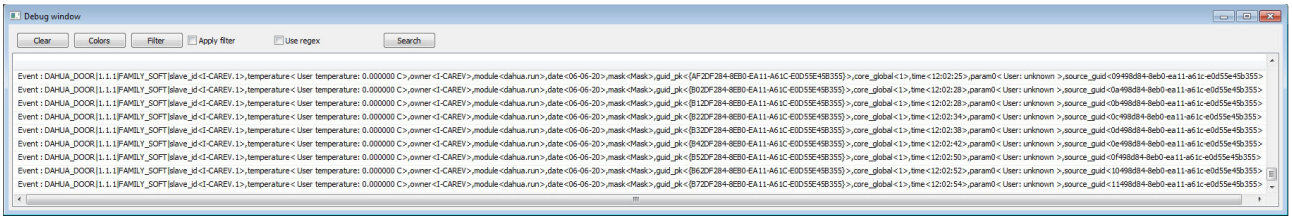
For a detailed information on working with these interface objects, see *Axxon PSIM* Operator's Guide.

The DHI-ASI7213X-T1 access control terminal allows you to measure body temperature and determine the presence/absence of a mask on the user's face.

The over temperature events are displayed in the **Event viewer** interface object.



The exact temperature value and the presence/absence of a face mask are displayed in the debug window (for details on working with the debug window, see *Axxon PSIM* Administrator's Guide).



4.2 Managing the Dahua access controller

You cannot manage the *Dahua* access controller in the **Map** interactive window.

The following states of the *Dahua* access controller are possible:

	Online
	Offline

4.3 Managing the Dahua door

You can manage the *Dahua* door in the **Map** interactive window using the function menu of the **Dahua Door** object.

The commands to manage the *Dahua* door are described in the table:

Function menu command	Function performed
Close permanently	Keep the door closed at all times
Open permanently	Keep the door open at all times
Reset alarm	Reset the alarm
Close door	Close the door
Open door	Open the door

The *Dahua* door can have the following states:

	The door is open
	The door is closed
	Connection lost
	Alarm