



Guide for configuring and working with the AccessNet (ABC v.2) integration module

ACFA PSIM 1.1

Last update 19/12/2024

Table of Contents

1	List of terms used in the Guide for configuring and working with the AccessNet (ABC v.2) integration module	3
2	Introduction into the Guide for configuring and working with the AccessNet (ABC v.2) integration module	4
2.1	Purpose of the document	4
2.2	General information about the AccessNet (ABC v.2) integration module.....	4
3	Supported hardware and licensing of the AccessNet (ABC v.2) integration module.....	5
4	Configuring the AccessNet (ABC v.2) integration module.....	6
4.1	Configuring the AccessNet (ABC v.2) central controller	6
4.1.1	Configuring advanced settings of the AccessNet (ABC v.2) controller	6
4.1.2	Configuring automatic switch of the AccessNet (ABC v.2) controller to daylight saving time.....	6
4.1.3	Configuring memory allocation of the AccessNet (ABC v.2) controller	7
4.1.4	Configuring optical lines of the AccessNet (ABC v.2) controller version 13.3	7
4.1.5	Configuring the connection of the AccessNet (ABC v.2) central controller.....	7
4.1.6	Configuring the fire detector of the AccessNet (ABC v.2) central controller	8
4.1.7	Managing the configuration of the AccessNet (ABC v.2) controller.....	9
4.2	Configuring the AccessNet (ABC v.2) access point	9
4.3	Configuring the AccessNet (ABC v.2) reader	10
5	Working with the AccessNet (ABC v.2) integration module	12
5.1	General information about working with the AccessNet (ABC v.2) integration module	12
5.2	Managing the AccessNet (ABC v.2) central controller	12
5.3	Managing the AccessNet (ABC v.2) access point	13
5.4	Managing the AccessNet (ABC v.2) reader	13
5.5	Example of a configured macro of the AccessNet (ABC v.2) integration module	14

1 List of terms used in the Guide for configuring and working with the AccessNet (ABC v.2) integration module

Access Control System (ACS) is a hardware and software complex that performs the functions of access control and management.

ABC v.2 controller is a central controller of the *AccessNet (ABC v.2) ACS* that contains information on the configuration of the hardware connected to it, a list of access cards, and an event buffer. It makes a decision on granting access upon reading the identifier. You can configure it from a computer (*Axxon PSIM Server*).

Readers are electronic devices used for entering a memorized code from a keyboard or reading code information from system keys (identifiers).

Access point is a place where access control takes place. A door, turnstile, gate, barrier equipped with a reader, electromechanical lock, and other access control devices can be an access point.

Access time is time that is given for accessing through an access point in the standby mode of operation. When this time expires, the access point is automatically locked. If automatic locking is impossible, the corresponding event is registered.

Standby mode of an access point is a mode of operation of an access point when an access point is normally locked. Unlocking takes place when the key is read. After access or after expiration of the set time, the access point is automatically locked.

Access is movement of people, transportation and other objects to (from) premises, buildings, areas, and territories.

Actuating devices are turnstiles, gates, barriers, or doors equipped with electromagnetic or electromechanical locks.

Time schedule is a set of several time intervals within each day of the time cycle (from 1 to 366 days), as well as time intervals during special dates. Time schedules define the access schedule to the protected facility.

2 Introduction into the Guide for configuring and working with the AccessNet (ABC v.2) integration module

On the page:

- [Purpose of the document](#)
- [General information about the AccessNet \(ABC v.2\) integration module](#)

2.1 Purpose of the document

The *Guide for configuring and working with the AccessNet (ABC v.2) integration module* is a reference and informational guide intended for configuration specialists and operators of the *AccessNet (ABC v.2) integration module*.

The Guide has the following information:

1. General information about the *AccessNet (ABC v.2) integration module*.
2. Configuring the *AccessNet (ABC v.2) integration module*.
3. Working with the *AccessNet (ABC v.2) integration module*.

2.2 General information about the AccessNet (ABC v.2) integration module

The *AccessNet (ABC v.2) integration module* is a part of *ACFA PSIM* and used to perform the following functions:

1. Configuring the *AccessNet (ABC v.2) ACS*.
2. Ensuring interaction between *AccessNet (ABC v.2) ACS* and *ACFA PSIM* (monitoring, control).

Before configuring the *AccessNet (ABC v.2) integration module*, do the following:

1. Install the *AccessNet (ABC v.2) ACS* hardware on the protected facility (see the *AccessNet (ABC v.2) ACS* official reference documentation).
2. Connect the *AccessNet (ABC v.2) central controller* to the computer (*Axxon PSIM* server) (see the *AccessNet (ABC v.2) ACS* official reference documentation).

Note

Detailed information about the *AccessNet (ABC v.2) ACS* is given in the official reference documentation (manufacturer is FortNet (Integrator-Plus LLC)).

3 Supported hardware and licensing of the AccessNet (ABC v.2) integration module

Manufacturer	FortNet (Integrator-Plus LLC) Address: Kyiv, Yordanska str. 1, office 9 Website: http://www.ed.com.ua/ Email: ed@ed.com.ua
Integration type	Low level protocol
Hardware connection	Ethernet

Supported hardware

Hardware	Function
ABC v 1.3e	Central access controller
ABC v 12.3e	Central access controller
ABC v 13.3e	Central access controller
ABC ARCP	Door/turnstile controller

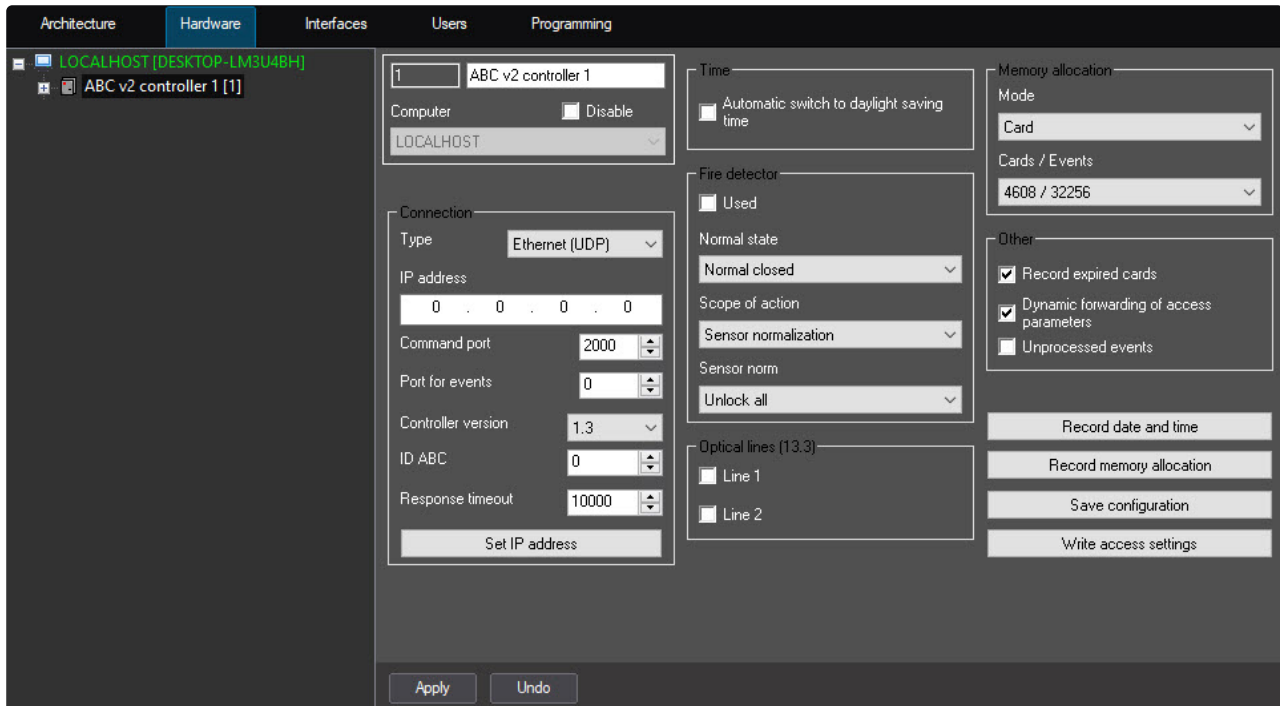
Module licensing

Per one IP address.

4 Configuring the AccessNet (ABC v.2) integration module

4.1 Configuring the AccessNet (ABC v.2) central controller

You can configure the *ABC v.2* central controller on the settings panel of the **ABC v2 controller** object that is created on the basis of the **Computer** object on the **Hardware** tab of the **System settings** window.



4.1.1 Configuring advanced settings of the AccessNet (ABC v.2) controller

To configure the advanced settings of the *AccessNet (ABC v.2)* controller, do the following:

1. Go to the settings panel of the **ABC v2 controller** object.
2. Set the **Record expired cards** checkbox to allow the *AccessNet (ABC v.2)* controller to record expired access cards.
3. Set the **Dynamic forwarding of access parameters** checkbox to enable dynamic forwarding of the data of the *Access Manager* module to the *AccessNet (ABC v.2)* controller.
4. Set the **Unprocessed events** checkbox to display all events from the hardware in the *Event Viewer*. Otherwise, only the events expected by the internal processes of the module will be displayed.
5. Click the **Apply** button to save the changes.

Configuring advanced settings of the *AccessNet (ABC v.2)* controller is complete.

4.1.2 Configuring automatic switch of the AccessNet (ABC v.2) controller to daylight saving time

To configure the automatic switch of the *AccessNet (ABC v.2)* controller to daylight saving time, do the following:

1. Go to the settings panel of the **ABC v2 controller** object.
2. Set the **Automatic switch to daylight saving time** checkbox to automatically switch the *AccessNet (ABC v.2)* controller to daylight saving time.

3. Click the **Apply** button to save the changes.

Configuring automatic switch of the *AccessNet (ABC v.2)* controller to daylight saving time is complete.

4.1.3 Configuring memory allocation of the AccessNet (ABC v.2) controller

To configure memory allocation of the *AccessNet (ABC v.2)* controller, do the following:

1. Go to the settings panel of the **ABC v2 controller** object.
2. From the **Mode** drop-down list, select the mode of memory allocation within the controller. This specifies which user fields are used in the *Access Manager* module and, accordingly, will be written to the controller:
 - a. **Card**—number of the user access card;
 - b. **Card + Pin**—number of the user access card and user PIN code;
 - c. **Card + Date**—number of the user access card and expiration date of the access card;
 - d. **Card + Pin + Date**—number of the user access card, user PIN code and expiration date of the access card.

 **Note**

The list of available modes depends on the controller version (see [Configuring the connection of the AccessNet \(ABC v.2\) central controller](#)).

3. From the **Cards/Events** drop-down list, select the required ratio of user access cards to events in the controller memory, which depends on the selected memory allocation mode.

 **Attention!**

To write the specified memory allocation to the controller, click the **Record memory allocation** button (see [Managing the configuration of the AccessNet \(ABC v.2\) controller](#)).

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

Configuring memory allocation of the *AccessNet (ABC v.2)* controller is complete.

4.1.4 Configuring optical lines of the AccessNet (ABC v.2) controller version 13.3

To configure optical lines of the *AccessNet (ABC v.2)* controller version 13.3, do the following:

1. Go to the settings panel of the **ABC v2 controller** object.
2. Set the **Line 1** checkbox to enable the first optical line of the *AccessNet (ABC v.2)* controller version 13.3.
3. Set the **Line 2** checkbox to enable the second optical line of the *AccessNet (ABC v.2)* controller version 13.3.
4. Click the **Apply** button to save the changes.

Configuring optical lines of the *AccessNet (ABC v.2)* controller version 13.3 is complete.

4.1.5 Configuring the connection of the AccessNet (ABC v.2) central controller

To configure the connection of the *AccessNet (ABC v.2)* central controller, do the following:

1. Go to the settings panel of the **ABC v2 controller** object.

2. The **Type** drop-down list displays the **Ethernet (UDP)** connection type of the *AccessNet (ABC v.2)* controller.
3. In the **IP address** field, specify the IP address of the *AccessNet (ABC v.2)* controller.
4. In the **Command port** field, specify the port that will receive commands from the *AccessNet (ABC v.2)* controller.
5. In the **Port for events** field, specify the port that will receive events from the *AccessNet (ABC v.2)* controller.
6. From the **Controller version** drop-down list, select the version of the *AccessNet (ABC v.2)* controller: **1.3**, **12.3**, or **13.3**.
7. In the **ID ABC** field, specify the identifier of the *AccessNet (ABC v.2)* controller.
8. In the **Response timeout** field, specify the timeout for polling the *AccessNet (ABC v.2)* controller.

Note

Before you set a new IP address, you must first establish a connection to the *AccessNet (ABC v.2)* controller.

9. Click the **Apply** button to save the changes.

Configuring the connection of the *AccessNet (ABC v.2)* central controller is complete.

4.1.6 Configuring the fire detector of the *AccessNet (ABC v.2)* central controller

To configure the fire detector of the *AccessNet (ABC v.2)* central controller, do the following:

1. Go to the settings panel of the **ABC v2 controller** object.
2. Set the **Used** checkbox if a fire detector is connected to the controller.
3. From the **Normal state** drop-down list, select the normal state of the fire detector:

- **Normal closed;**
 - **Normal open.**
4. From the **Scope of action** drop-down list, select the condition for clearing the fire alarm and canceling the unlocking:
 - **Sensor normalization;**
 - **Operator command.**
 5. From the **Sensor norm** drop-down list, select the type of unlocking of access points when the fire detector is triggered:
 - **Unlock all**—when a fire detector is triggered, all access points connected to the controller are unlocked, as well as this fire detector.
 - **Unlock individually**—when a fire detector is triggered, all access points connected to the controller are unlocked, as well as this fire detector. Access points must have the **Ignore fire alarm** function disabled (see [Configuring the AccessNet \(ABC v.2\) reader](#)).
 6. Click the **Apply** button to save the changes.

Configuring the fire detector of the *AccessNet (ABC v.2)* central controller is complete.

4.1.7 Managing the configuration of the AccessNet (ABC v.2) controller

To manage the configuration of the *AccessNet (ABC v.2)* controller, do the following:

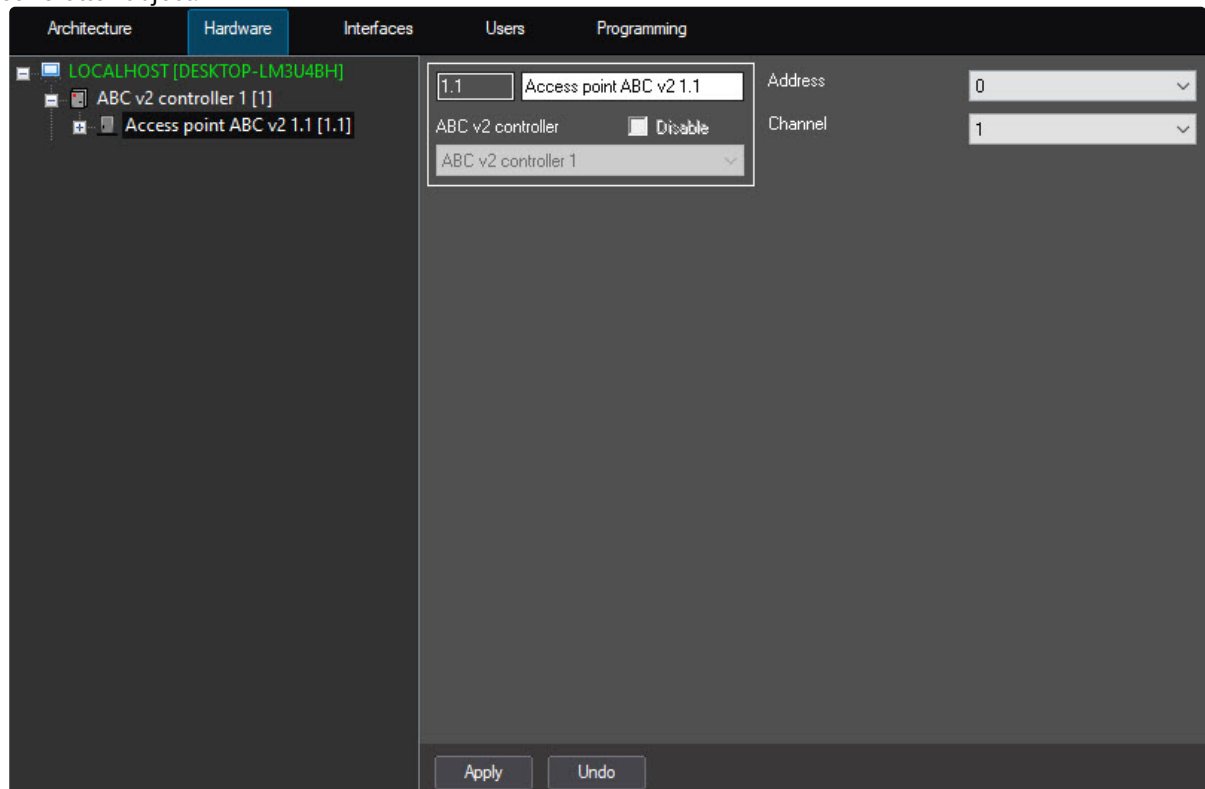
1. Go to the settings panel of the **ABC v2 controller** object.
2. Click the **Record date and time** button to record the current date and time of the *Axxon PSIM* Server to the *AccessNet (ABC v.2)* controller.
3. Click the **Record memory allocation** button to record the specified memory allocation to the *AccessNet (ABC v.2)* controller (see [Configuring memory allocation of the AccessNet \(ABC v.2\) controller](#)).
4. Click the **Save configuration** button to save the current configuration to the *AccessNet (ABC v.2)* controller.
5. Click the **Write access settings** button to write the data of the *Access Manager* module to the *AccessNet (ABC v.2)* controller.
6. Click the **Apply** button to save the changes.

Managing the configuration of the *AccessNet (ABC v.2)* controller is complete.

4.2 Configuring the AccessNet (ABC v.2) access point

To configure the *AccessNet (ABC v.2)* access point, do the following:

1. Go to the settings panel of the **Access point ABC v2** object that is created on the basis of the **ABC v2 controller** object.



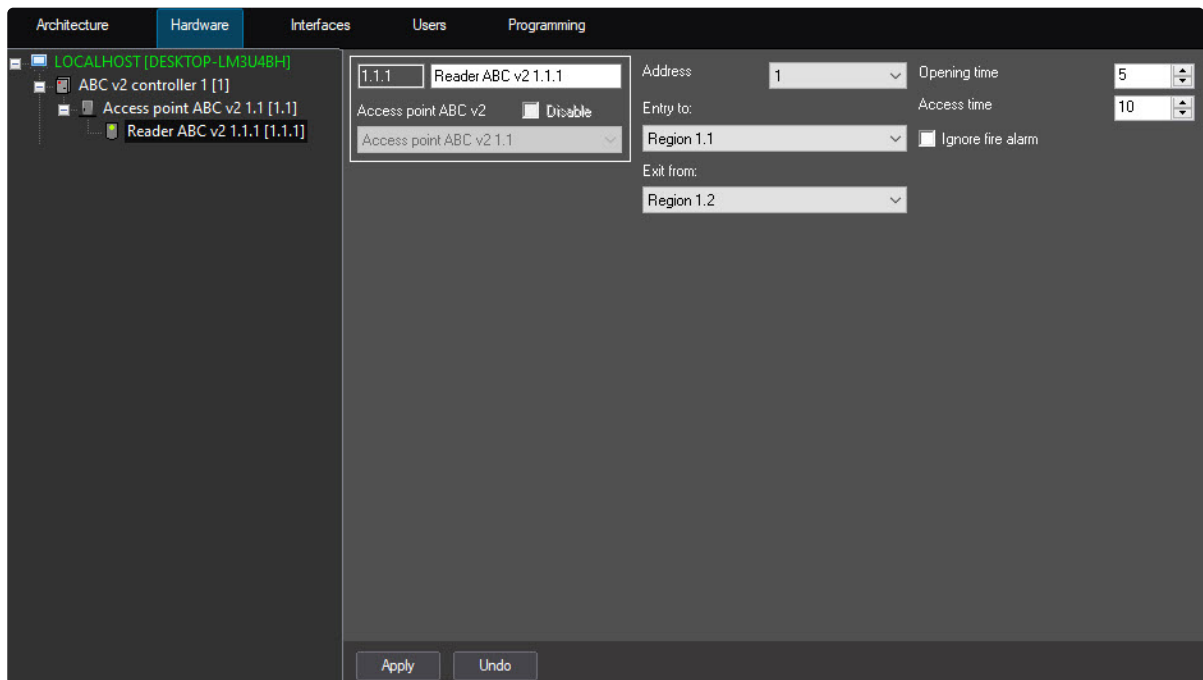
2. From the **Address** drop-down list, select the address of the *AccessNet (ABC v.2)* access point in the range from **0** to **63**.
3. From the **Channel** drop-down list, select the channel of the *AccessNet (ABC v.2)* access point: **1** or **2**.
4. Click the **Apply** button to save the changes.

Configuring the *AccessNet (ABC v.2)* access point is complete.

4.3 Configuring the AccessNet (ABC v.2) reader

To configure the *AccessNet (ABC v.2)* reader, do the following:

1. Go to the settings panel of the **Reader ABC v2** object that is created on the basis of the **Access point ABC v2** object.



2. From the **Address** drop-down list, select the address of the reader: **1** or **2**.
3. From the **Entry to** drop-down list, select the region on the exit side through the *AccessNet (ABC v.2)* reader.
4. From the **Exit from** drop-down list, select the region on the entry side through the *AccessNet (ABC v.2)* reader.
5. In the **Opening time** field, specify the time in seconds during which the lock must be unlocked when access is granted.
6. In the **Access time** field, specify the time in seconds during which the door is open when access is granted. If the door remains open longer than the specified time, the following message is registered: **Door remained open after access time expired**.
7. Set the **Ignore fire alarm** checkbox if you don't want to automatically unlock the *AccessNet (ABC v.2)* access point when fire alarm is registered.
8. Click the **Apply** button to save the changes.

Configuring the AccessNet (ABC v.2) reader is complete.

5 Working with the AccessNet (ABC v.2) integration module

5.1 General information about working with the AccessNet (ABC v.2) integration module

The following interface objects are used to work with the *AccessNet (ABC v.2)* integration module:

1. **Map.**
2. **Event Viewer.**
3. **Access Manager.**

For the information on configuring these interface objects, see the *Axxon PSIM Administrator's Guide* and [Guide for configuring and working with the Access Manager integration module](#).

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








5.2 Managing the AccessNet (ABC v.2) central controller

You can manage the *AccessNet (ABC v.2)* central controller in the **Map** window using the menu of the **ABC v2 controller** object.

Command to manage the controller:

- Cancel fire alarm unlock—cancel fire alarm unlock.





The following states of the controller are possible:

	Disconnected
	Working mode
	Programming mode
	Fire Alarm
	Fire sensor alarm
	AC/DC power failure
	Tamper

5.3 Managing the AccessNet (ABC v.2) access point

You cannot manage the *AccessNet (ABC v.2)* access point in the **Map** window.

The following states of the object are possible:

	Unknown
	AC/DC power failure
	Tamper
	Normal

5.4 Managing the AccessNet (ABC v.2) reader








You can manage the *AccessNet (ABC v.2)* reader in the **Map** window using the menu of the **Reader ABC v2** object.

Description of the reader commands is given in the table:

Menu command	Function
Standby mode	Switch the reader to standby mode
Close	Switch the reader to permanent locking state
Open	Switch the reader to permanent unlocking state
One-time pass	Unlock the reader for a one-time pass
Enable access request	Switch the access granting mode in which the <i>ABC v2</i> controller makes the decision to grant access
Disable access request	Switch the access granting mode in which <i>Axxon PSIM</i> makes the decision to grant access

The following states of the reader are possible:

	Unknown
---	---------

	Disabled
	Door Forced Alarm
	Door held
	Standby mode
	Opened
	Closed
	Request to access

5.5 Example of a configured macro of the AccessNet (ABC v.2) integration module

- ✓ [Creating and using macros](#)
[Examples of macros](#)

When working with the *AccessNet (ABC v.2)* integration module, you can configure a macro that will trigger when an event is received from an *AccessNet (ABC v.2)* device.

Example of a configured macro:

Response sending delay (s):

Disable

Fast call

Icon type:

Settings

State

Local Hidden

Events

Type	Number	Name	Event
Reader ABC v2	1.1.1	Reader ABC v2 1..	Access is granted

Parameters

Name	Value

Actions

Type	Number	Name	Action
Reader ABC v2	1.1.1	Reader ABC v2 1..	Open

Parameters

Name	Value

Apply

Undo