



**Guide for configuring and working with the Suprema Server  
"BioStar 2" integration module**

## Table of Contents

|     |                                                                                                    |    |
|-----|----------------------------------------------------------------------------------------------------|----|
| 1   | Introduction into the Guide for configuring and working with the BioStar 2 integration module..... | 4  |
| 1.1 | Purpose of the document.....                                                                       | 4  |
| 1.2 | General information about the BioStar 2 integration module .....                                   | 4  |
| 2   | Supported software and licensing of the BioStar 2 integration module .....                         | 6  |
| 3   | Preconfiguring the software of the BioStar 2 manufacturer .....                                    | 7  |
| 4   | Adding the BioStar 2 integration module .....                                                      | 9  |
| 5   | Configuring the BioStar 2 integration module.....                                                  | 10 |
| 6   | Used software of the BioStar 2 manufacturer .....                                                  | 12 |
| 7   | Working with the BioStar 2 integration module .....                                                | 13 |
| 7.1 | General information about working with the BioStar 2 integration module.....                       | 13 |
| 7.2 | Configuring macros when working with the BioStar 2 integration module.....                         | 13 |
| 7.3 | Managing the object of the BioStar 2 integration module .....                                      | 14 |
| 7.4 | Managing the device of the BioStar 2 integration module.....                                       | 14 |
| 7.5 | Managing the door of the BioStar 2 integration module .....                                        | 15 |

# 1 Introduction into the Guide for configuring and working with the BioStar 2 integration module

## On the page:

- [Purpose of the document \(see page 4\)](#)
- [General information about the BioStar 2 integration module \(see page 4\)](#)

## 1.1 Purpose of the document

The *Guide for configuring and working with the BioStar 2 integration module* is a reference and information manual and is intended for configuration specialists and operators of the **BioStar 2** integration module.

The Guide has the following information:

1. General information about the **BioStar 2** integration module.
2. Adding the **BioStar 2** integration module.
3. Configuring the **BioStar 2** integration module.
4. Working with the **BioStar 2** integration module.

## 1.2 General information about the BioStar 2 integration module

The **BioStar 2** integration module is a part of the ACS implemented on the basis of ACFA and is used for monitoring and controlling the **BioStar 2** ACS devices. You cannot configure the **BioStar 2** hardware in ACFA.

Before you start working with the **BioStar 2** integration module, you must install the hardware on the protected facility and perform the initial configuration of the **BioStar 2** ACS devices.

You also must connect to the manufacturer's software—**BioStar 2** Server.



### Note

For detailed information about **BioStar 2** ACS, refer to the official reference documentation for this ACS (manufacturer is Suprema).

## 2 Supported software and licensing of the BioStar 2 integration module

|                                       |                                                                                                                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of the integration module</b> | <a href="#">Suprema: BioStar 2 server</a> (see page 4)                                                                                                                                                                                              |
| <b>Integrated software, hardware</b>  | <ul style="list-style-type: none"> <li>• BioStar 2 software version <b>2.9.8</b></li> <li>• BioStar X software version <b>1.0.0.294</b></li> </ul>                                                                                                  |
| <b>Functionality</b>                  | <b>Monitoring, control</b>                                                                                                                                                                                                                          |
| <b>Licensing</b>                      | Per each device ( <b>ACFARreader</b> )                                                                                                                                                                                                              |
| <b>Information on manufacturer</b>    | <p>Suprema Inc.</p> <p>Address: 17F Parkview Office Tower, Jeongja, Bundang, Seongnam, Gyeonggi, 463-863 Republic of Korea</p> <p>Phone: +82 31 783 4502</p> <p>Website: <a href="http://www.supremainc.com">www.supremainc.com</a><sup>1</sup></p> |
| <b>Type of integration</b>            | <b>SOFT-SOFT</b>                                                                                                                                                                                                                                    |
| <b>Hardware connection interface</b>  | NA                                                                                                                                                                                                                                                  |
| <b>ACFA version</b>                   | <a href="#">1.0</a> <sup>2</sup>                                                                                                                                                                                                                    |

---

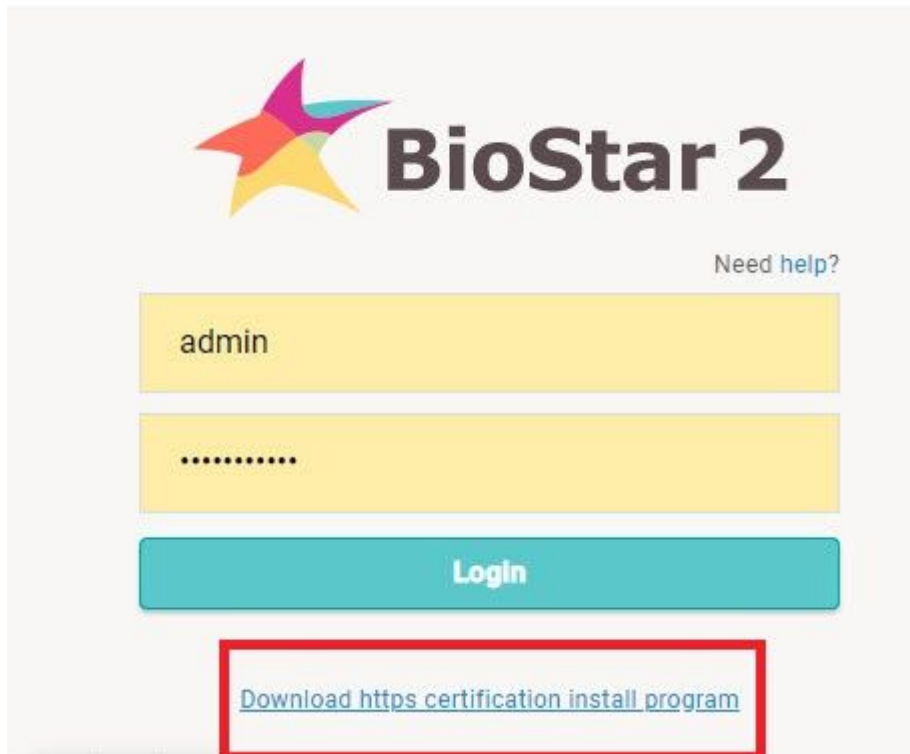
<sup>1</sup> <http://www.supremainc.com/>

<sup>2</sup> <https://docs.axxonsoft.com/confluence/display/AxACFA10EN/ACFA+1.0+Release+Notes>

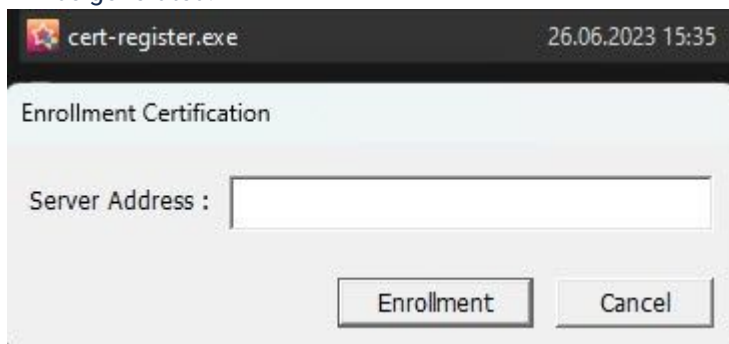
### 3 Preconfiguring the software of the BioStar 2 manufacturer

To work with the **BioStar 2** integration module, first you must preconfigure the software of the manufacturer –the **BioStar 2** Server. To do this, do the following:

1. Connect the computer with the installed *Axxon One* to the **BioStar 2** Server by specifying the username and password.



2. Download the certificate by clicking the **Download https certification install program** link.
3. Specify the IP address of the computer in the **Server Address** field. The **biostar\_cert.crt** certificate file will be generated.



4. Open the **biostar\_cert.crt** file.

5. Select **Local Machine** as a store location.

Store Location

☐ Current User

☒ Local Machine

To continue, click Next.

Windows can automatically select a certificate store, or you can specify a location for the certificate.

- ☐ Automatically select the certificate store based on the type of certificate
- ☒ Place all certificates in the following store

Certificate store:

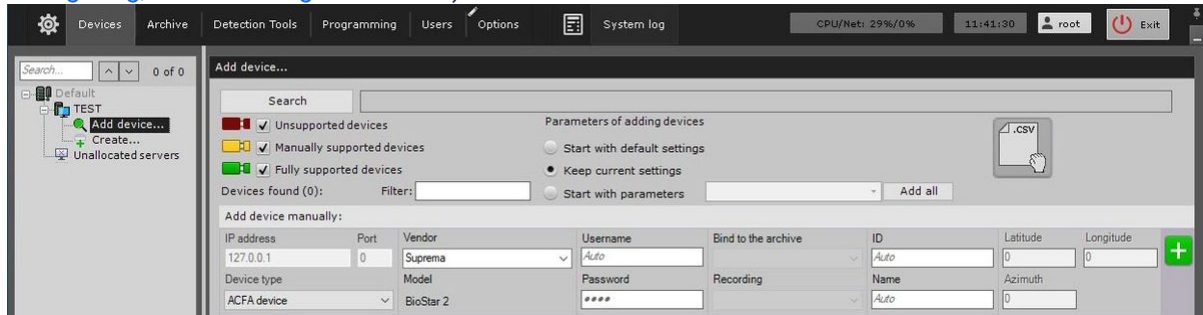
Trusted Root Certification Authorities

Browse...

## 4 Adding the BioStar 2 integration module

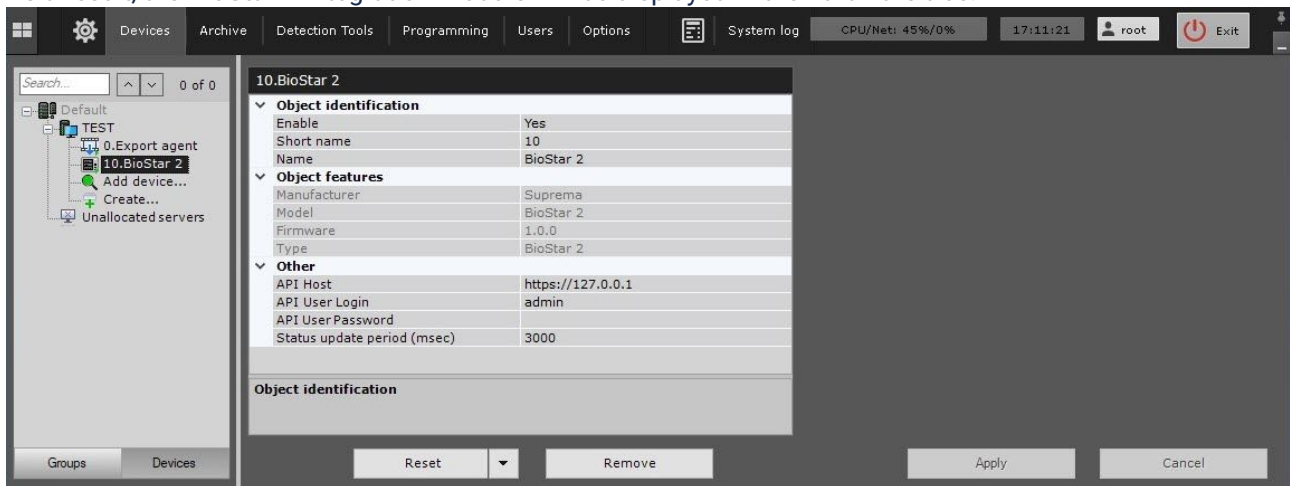
To add the **BioStar 2** integration module to the system, do the following:

1. Add the device to the system manually using the IP Device Discovery Wizard (see [Searching, adding, configuring, and removing IP devices](#)<sup>3</sup>).



2. From the **Device type** drop-down list, select the **ACFA device**.
3. From the **Vendor** drop-down list, select **Suprema**. In the **Model** field, the **BioStar 2** model will be selected by default.
4. Click the  button.

As a result, the **BioStar 2** integration module will be displayed in the hardware tree.

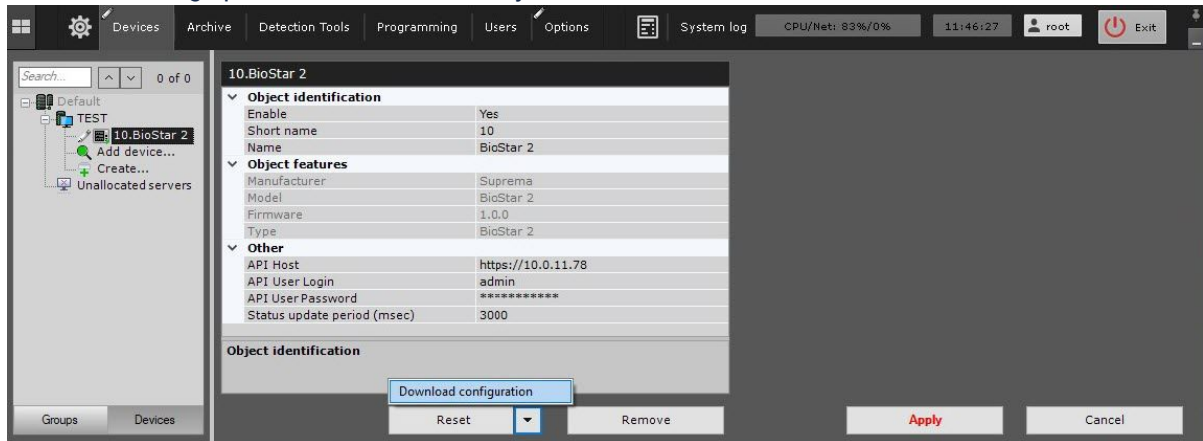


<sup>3</sup> <https://docs.axxonsoft.com/confluence/spaces/one20en/pages/246484249/Searching+adding+configuring+and+removing+IP+devices>

## 5 Configuring the BioStar 2 integration module

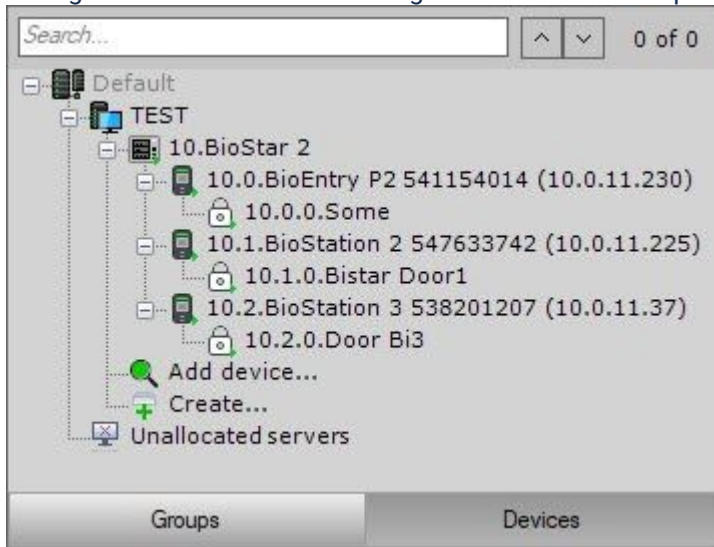
To configure the **BioStar 2** integration module, do the following:

1. Go to the settings panel of the **BioStar 2** object.



2. In the **API Host** field, specify the IP address to connect to the **BioStar 2** Server.
3. In the **API User Login** field, specify the user identifier to connect to the **BioStar 2** Server.
4. In the **API User Password** field, specify the user password to connect to the **BioStar 2** Server.
5. In the **Status update period (msec)** field, specify in milliseconds the time period of hardware status update.
6. Click the **Apply** button to save the changes.
7. To download the configuration and build the hardware tree automatically, click the  button and select **Download configuration** from the drop-down list.
8. Click the **Apply** button.

Configuration of the **BioStar 2** integration module is complete. A hardware tree will be built:



## 6 Used software of the BioStar 2 manufacturer

You must configure the hardware through the manufacturer's software—**BioStar 2 Server**.

Examples of windows with settings:

The screenshot displays the BioStar 2 Server interface. The top navigation bar includes 'Settings', 'Port', 'About', and 'Help'. The left sidebar contains icons for 'DASH BOARD', 'USER', 'DEVICE', 'DOOR', 'ACCESS CONTROL', 'MONITORING', and 'TIME ATTENDANCE'. The main area shows the 'All Devices' table with columns for Device ID, Name, Group, Device Type (Master/Slave), IP Address, Device Status, and Firmware Status.

| Device ID | Name                                 | Group       | Device Type (Master/Slave) | IP Address  | Device Status | Firmware Status |
|-----------|--------------------------------------|-------------|----------------------------|-------------|---------------|-----------------|
| 541154014 | BioEntry P2 541154014 (10.0.11.230)  | All Devices | BioEntry P2                | 10.0.11.230 | Disconnected  |                 |
| 547633742 | BioStation 2 547633742 (10.0.11.147) | All Devices | BioStation 2               | 10.0.11.147 | Normal        |                 |
| 538201207 | BioStation 3 538201207 (10.0.11.37)  | All Devices | BioStation 3               | 10.0.11.37  | Disconnected  |                 |

Below the table, the 'Door 1' configuration window is shown. It includes sections for 'Information', 'Configuration', and 'Option'.

**Information**

- Name: Door 1
- Group: All Doors
- Description:

**Configuration**

- Entry Device: BioStation 2 547633742 (10.0.11.147)
- Door Relay(+): Relay 0 of BioStation 2 547633742 (10.0.11.147) Device
- Exit Button: Input Port 0 of BioStation 2 547633742 (10.0.11.147) Device
- Door Sensor: Input Port 1 of BioStation 2 547633742 (10.0.11.147) Device
- Switch: Normally Open (ON)
- Does not activate relay: OFF
- Switch: Normally Open (ON)
- Use sensor when Entry Confirmed APB enabled: OFF

**Option**

- Open Time: 3 sec
- Lock when door is closed: OFF
- Use Automatic Door: OFF

## 7 Working with the BioStar 2 integration module

### 7.1 General information about working with the BioStar 2 integration module

The following interface objects are used to work with the **BioStar 2** integration module: **Map, Equipment Board, Macro**.

For the information on configuring these interface objects, see [Configuring the interactive map](#)<sup>4</sup>, [Configuring an Equipment Board](#)<sup>5</sup>, [Programming](#)<sup>6</sup>.

For the information on working with these interface objects, see [Working with the interactive map](#)<sup>7</sup>, [Working with Equipment Board](#)<sup>8</sup>, [Macros control](#)<sup>9</sup>.

### 7.2 Configuring macros when working with the BioStar 2 integration module



[Programming](#)<sup>10</sup>

[Macros control](#)<sup>11</sup>

When you work with the **BioStar 2** integration module, you can configure the start conditions for a macro.

When you configure a macro, you must select a specific object of the **BioStar 2** integration module.

<sup>4</sup> <https://docs.axxonsoft.com/confluence/spaces/one20en/pages/246485351/Configuring+the+interactive+map>

<sup>5</sup> <https://docs.axxonsoft.com/confluence/spaces/one20en/pages/260925539/Configuring+an+Equipment+Board>

<sup>6</sup> <https://docs.axxonsoft.com/confluence/spaces/one20en/pages/246485013/Programming>

<sup>7</sup> <https://docs.axxonsoft.com/confluence/spaces/one20en/pages/246486362/Working+with+the+interactive+map>

<sup>8</sup> <https://docs.axxonsoft.com/confluence/spaces/one20en/pages/260925544/Working+with+Equipment+Board>

<sup>9</sup> <https://docs.axxonsoft.com/confluence/spaces/one20en/pages/246486481/Macros+control>

<sup>10</sup> <https://docs.axxonsoft.com/confluence/spaces/one20en/pages/246485013/Programming>

<sup>11</sup> <https://docs.axxonsoft.com/confluence/spaces/one20en/pages/246486481/Macros+control>

Example of a configured macro:

Name:  Working mode:

☐ Add to menu

---

**Start conditions**

Default: 10.BioStar 2: 10.2.BioStation 3 538201207 (10.0.11.37): 10.2.0.Door Bi3

Start conditions:

Add event filter

---

**ACFA: Perform action**

Default: 10.BioStar 2: 10.1.BioStation 2 547633742 (10.0.11.225): 10.1.0.Bistar Door1

Component:

Action:

## 7.3 Managing the object of the BioStar 2 integration module

You cannot manage the object of the **BioStar 2** integration module in the **Map** and **Equipment Board** interface objects.

The object of the **BioStar 2** integration module can have the following states:

|                                                                                     |              |
|-------------------------------------------------------------------------------------|--------------|
|  | Unknown      |
|  | Connected    |
|  | Disconnected |

## 7.4 Managing the device of the BioStar 2 integration module

You cannot manage the device of the **BioStar 2** integration module in the **Map** and **Equipment Board** interface objects.

The device of the **BioStar 2** integration module can have the following states:

|                                                                                     |         |
|-------------------------------------------------------------------------------------|---------|
|  | Unknown |
|-------------------------------------------------------------------------------------|---------|

|                                                                                   |              |
|-----------------------------------------------------------------------------------|--------------|
|  | Connected    |
|  | Disconnected |

## 7.5 Managing the door of the BioStar 2 integration module

You can manage the door of the **BioStar 2** integration module in the **Map** and **Equipment Board** interface objects using the function menu of the **Door** object.

Commands to manage the door of the **BioStar 2** integration module are described in the table:

| Menu command   | Function               |
|----------------|------------------------|
| <b>Unlock</b>  | Unlock the door        |
| <b>Release</b> | Switch to standby mode |
| <b>Open</b>    | Open the door          |
| <b>Lock</b>    | Lock the door          |

The door of the **BioStar 2** integration module can have the following states:

|                                                                                     |           |
|-------------------------------------------------------------------------------------|-----------|
|  | Unknown   |
|  | Open      |
|  | Closed    |
|  | Held Open |

|                                                                                     |                      |
|-------------------------------------------------------------------------------------|----------------------|
|    | Held Open Alarm      |
|    | Forced Open Alarm    |
|    | APB Alarm            |
|    | Locked               |
|    | Locked (Scheduled)   |
|    | Locked (Operator)    |
|  | Locked (Emergency)   |
|  | Unlocked             |
|  | Unlocked (Scheduled) |
|  | Unlocked (Operator)  |
|  | Unlocked (Emergency) |