



**Guide for configuring and working with the ZKTeco PUSH
SDK integration module**

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1 Introduction into the Guide for configuring and working with the ZKTeco PUSH SDK integration module

On the page:

- [Purpose of the document](#)
- [General information about the ZKTeco PUSH SDK integration module](#)

1.1 Purpose of the document

The *Guide for configuring and working with the ZKTeco PUSH SDK integration module* is a reference and information manual and is intended for configuration specialists and operators of the **ZKTeco PUSH SDK** integration module. This module is a part of the access control system implemented on the basis of *ACFA*.

The Guide has the following information:

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

1.2 General information about the ZKTeco PUSH SDK integration module

The **ZKTeco PUSH SDK** integration module is a part of the ACS implemented on the basis of *ACFA* and is used to control the hardware of the ZKTeco system.



Note

For detailed information about **ZKTeco PUSH SDK** ACS, refer to the official reference documentation for this system (manufactured by ZKTeco).

For the correct operation, you must install ZK Teco SDK.

Before configuring the **ZKTeco PUSH SDK** integration module, you must do the following:

1. Install the **ZKTeco PUSH SDK** hardware on the protected facility (see the official ZKTeco reference documentation).
2. Connect the **ZKTeco PUSH SDK** hardware to the *Axxon One* server (see the official ZKTeco reference documentation).

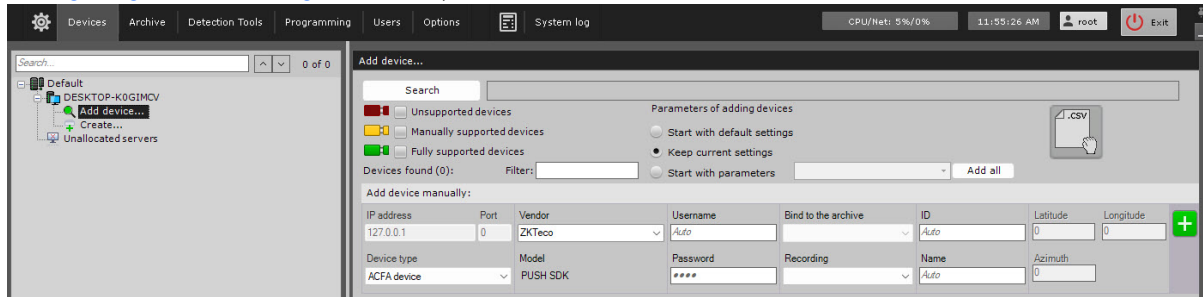
2 Supported hardware and licensing of the ZKTeco PUSH SDK integration module

Name of the integration module	ZKTeco: PUSH SDK
Integrated software, hardware	All ZKTeco access control devices that work via the PUSH SDK protocol (SpeedFace, ProFace, ELITE PASS terminals and Inbio Pro, C2-260, and so on controllers) are integrated
Functionality	Monitoring, control
Licensing	Per each door (ACFARReader)
Information on manufacturer	ZKTeco Address: ZK Building, Wuhe Road, Gangtou, Bantian, Buji Town, Longgang District, Shenzhen, China Phone: +86 755-33985019 Fax: 12 39 89 901 Website: www.zkteco.com Email: service@zkteco.com
Type of integration	SDK
Hardware connection interface	Ethernet
ACFA version	1.0

3 Adding the ZKTeco PUSH SDK integration module

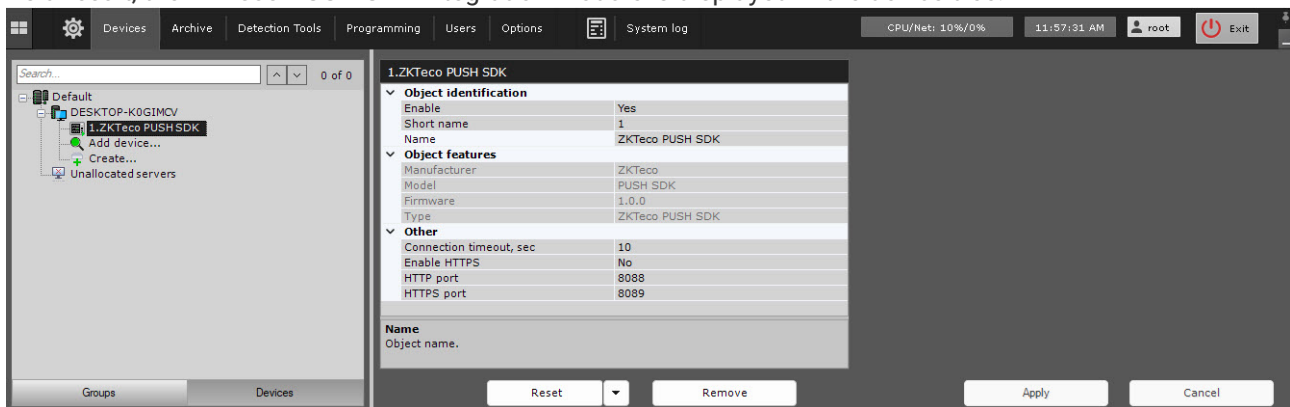
To add the **ZKTeco PUSH SDK** integration module to the system, do the following:

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



2. From the **Device type** drop-down list, select the **ACFA device**.
3. From the **Vendor** drop-down list, select **ZKTeco**. In the **Model** field, the **PUSH SDK** model is selected by default.
4. Click the  button.

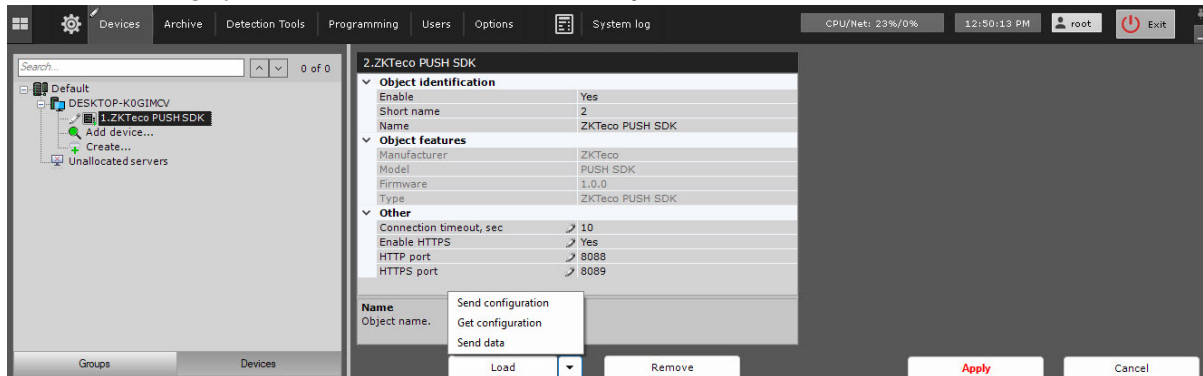
As a result, the **ZKTeco PUSH SDK** integration module is displayed in the device tree.



4 Configuring the object of the ZKTeco PUSH SDK integration module

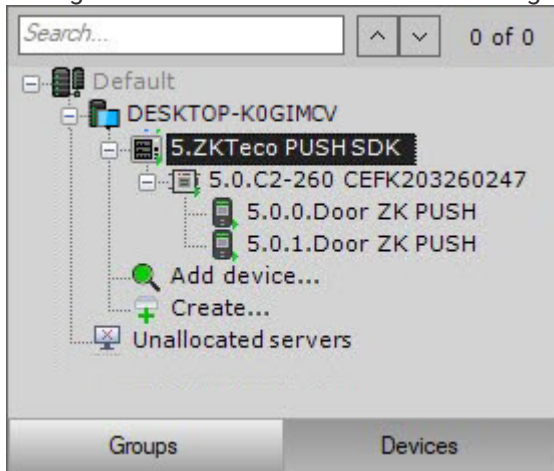
To configure the **ZKTeco PUSH SDK** integration module, do the following:

1. Go to the settings panel of the **ZKTeco PUSH SDK** object.



2. In the **Connection timeout, sec** field, enter the time interval in seconds after which the system stops connecting to the SDK if no response is received. The default value is **10**.
3. If you want to use the HTTPS protocol, select the **Yes** value in the **Enable HTTPS** field and enter the HTTPS port number for connecting to the ZK Teco SDK in the **HTTPS port** field. The default value is **8089**.
4. In the **HTTP port** field, enter the number of the HTTP port for connecting to the ZK Teco SDK. The default value is **8088**.
5. Click the **Apply** button to save the settings.
6. Click the  button and select **Get configuration** from the drop-down list to automatically download the configuration and build the hardware tree.
7. Click the  button and select **Send configuration** from the drop-down list to send the complete configuration to the hardware after making all the necessary changes.
8. Click the  button and select **Send data** from the drop-down list to write access parameters to end devices.
9. Click the **Apply** button.

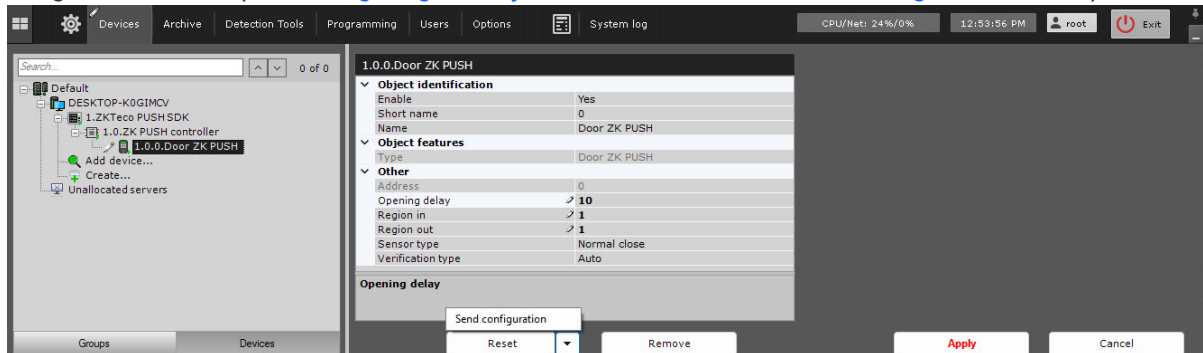
Configuration of the **ZKTeco PUSH SDK** integration module is complete. As a result, a hardware tree is built:



4.1 Configuring the door of the ZKTeco PUSH SDK integration module

To configure the door of the **ZKTeco PUSH SDK** integration module, do the following:

1. Go to the settings panel of the **Door ZK PUSH** object that is created automatically when you download the configuration on the basis of the **ZK PUSH Controller** object of the **ZKTeco PUSH SDK** integration module (see [Configuring the object of the ZKTeco PUSH SDK integration module](#)).



2. In the **Opening delay** field, enter the time interval in seconds during which the door remains open after user verification. The default value is **0**.
3. From the **Region in** drop-down list, select the region on the exit side of the door.
4. From the **Region out** drop-down list, select the region on the entry side of the door.
5. In the **Sensor type** field, select the contact status of the door position sensor:
 - a. **None**
 - b. **Normal open**
 - c. **Normal close** (default).
6. In the **Verification type** field, select the type of user verification:
 - a. **Auto** (default)

- b. **Fingerprint**
- c. **User ID**
- d. **Password**
- e. **Card**
- f. **Fingerprint or password**
- g. **Fingerprint or card**
- h. **Card or password**
- i. **User ID + fingerprint**
- j. **Fingerprint + password**
- k. **Card + fingerprint**
- l. **Card + password**
- m. **Fingerprint + password + card**
- n. **User ID + fingerprint + password**
- o. **User ID + fingerprint or card + fingerprint**
- p. **Face**
- q. **Face + fingerprint**
- r. **Face + password**
- s. **Face + card**
- t. **Face + fingerprint + card**
- u. **Face + fingerprint + password**
- v. **Finger vein**
- w. **Finger vein + password**
- x. **Finger vein + card**
- y. **Finger vein + password + card**
- z. **Other**

7. Click the **Apply** button to save the settings.

8. To send the updated configuration to a device, click the  button and select **Send configuration**.

9. Click the **Apply** button.

Configuration of the door of the **ZKTeco PUSH SDK** integration module is complete.

5 Working with the ZKTeco PUSH SDK integration module

5.1 General information about working with the ZKTeco PUSH SDK integration module

The **Map**, **Equipment Board**, and **Macro** interface objects are used to work with the **ZKTeco PUSH SDK** integration module.

For the information on configuring these interface objects, see [Configuring the interactive map](#), [Configuring an Equipment Board](#), and [Programming](#).

For the information on working with these interface objects, see [Working with the interactive map](#), [Working with Equipment Board](#), and [Macros control](#).

5.2 Configuring macros when working with the ZKTeco PUSH SDK integration module



[Programming](#)

[Macros control](#)

When working with the **ZKTeco PUSH SDK** integration module, you can configure a macro that will trigger when an event is received from **ZKTeco PUSH SDK**.

When configuring a macro, you must select a specific object of the **ZKTeco PUSH SDK** integration module.

Example of a configured macro:

Name: Working mode:

☒ Add to menu

Start conditions

Manual start

Start conditions:

Event:

ACFA: Execute action

Component:

Action:

5.3 Managing the object of the ZKTeco PUSH SDK integration module

You can manage the object of the **ZKTeco PUSH SDK** integration module in the **Map** and **Equipment Board** interface objects using the function menu of the **ZKTeco PUSH SDK** object. To display the menu of the **ZKTeco PUSH SDK** object, right-click the required object. Command to manage the object of the **ZKTeco PUSH SDK** integration module:

Menu command	Function
Sync time across devices	Write the current time to all devices

The following states of the object of the **ZKTeco PUSH SDK** integration module are possible:

	Connected
	Disconnected
	Unknown

5.4 Managing the controller of the ZKTeco PUSH SDK integration module

You can manage the controller of the **ZKTeco PUSH SDK** integration module in the **Map** and **Equipment Board** interface objects using the function menu of the **ZK PUSH Controller** object. To display the menu of the **ZK PUSH Controller** object, right-click the required object. Commands to manage the controller of the **ZKTeco PUSH SDK** integration module:

Menu command	Function
Cancel all alarms	Cancel alarms on all devices and reset them to a normal state
Get IP address	Get IP address of the controller
Sync date and time	Write the current date and time to all devices

The following states of the **ZK PUSH Controller** object of the **ZKTeco PUSH SDK** integration module are possible:

	Connected
	Disconnected
	Unknown

5.5 Managing the door of the ZKTeco PUSH SDK integration module

You can manage the door of the **ZKTeco PUSH SDK** integration module in the **Map** and **Equipment Board** interface objects using the function menu of the **Door ZK PUSH** object. To display the menu of the **Door ZK PUSH** object, right-click the required object. Commands to manage the door of the **ZKTeco PUSH SDK** integration module are described in the table:

Menu command	Function
Handle alarm	Process the door alarm and reset the door to a normal state
Close	Close the door
Open	Open the door. In the window that opens: 1. In the Opening time, s field, enter the time interval in seconds during which the door remains open. 2. Click the OK button
Open permanently	Open the door for an unlimited time

The following states of the **Door ZK PUSH** object of the **ZKTeco PUSH SDK** integration module are possible:

	Alarm
	Open
	Closed
	Disconnected
	No sensor
	Accidental door opening alarm
	Battery power failure alarm
	Duress fingerprint alarm

	Duress password alarm
	Main power failure alarm
	Reader disassembly alarm
	Door sensor timeout alarm
	Tamper alarm
	Unknown