
# Rakinda Integration Module Settings Guide

ACFA PSIM 1.1

Last update 08/04/2023

# Table of Contents

# 1 Introduction into Rakinda Module Settings Guide

**On the page:**



## 1.1 Purpose of the document

This *Rakinda Module Settings Guide* is a reference manual designed for *Rakinda* Module configuration technicians.

This Guide presents the following materials:

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

## 1.2 General information about the Rakinda integration module

The *Rakinda* module is a component of an ACS built on the basis of *ACFA PSIM*. It is used to ensure the interaction between the *Rakinda* hardware and *ACFA PSIM* (monitoring).

**Note**

Detailed information about the *Rakinda* ACS is presented in the official documentation for that system (manufacturer Shenzhen Rakinda Technology Co., Ltd).

Before configuring the *Rakinda* module, it is necessary to install the *Rakinda* hardware on the protected facility (see the *Rakinda* reference documentation).

# 2 Supported hardware and licensing of the Rakinda integration module

| | |
|---|---|
| **Manufacturer** | Shenzhen Rakinda Technology Co., Ltd<br>Address: 5F Building A2, Lee Lang Software Park, Bu Lan Road 31, Longgang District, Shenzhen City, Guangdong, China<br>Phone: +86 755 8323 3013<br>Email: wyp@rakinda.com<br>Website: http://www.rakinda.com |
| **Integration type** | SDK |
| **Equipment connection** | Ethernet |

**Supported equipment**

| Equipment | Function | Features |
|---|---|---|
| RD007 | Barcode scanner | • 2D: PDF417, QR CODE, DATA MATRIX, support for reading the screen and printed QR code.<br>• 1D: CODE 128, UCC/EAN-128, AIM-128, EAN-8, etc.<br>• Reading distance: 10-55 mm.<br>• Scanning angle: 360°.<br>• Can read ISO14443A and ISO14443B card serial numbers. For example, second-generation ID card FM1208 CPU card, M1 card (Mifare S50, Mifare S70 IC card), SRIX4K, etc.<br>• Communication interface: RJ45 10/100M TCP/IP.<br>• Wiegand output: Wiegand 26/34. |

**Protection**
Per 1 Barcode scanner.

# 3 Configuration of the Rakinda integration module

## 3.1 Pre-configuring the Rakinda ACS

Pre-configure the *Rakinda* ACS as follows:

1. Run the QR_Setting_HTTPEnglish.exe utility (this utility should be requested from the manufacturer).

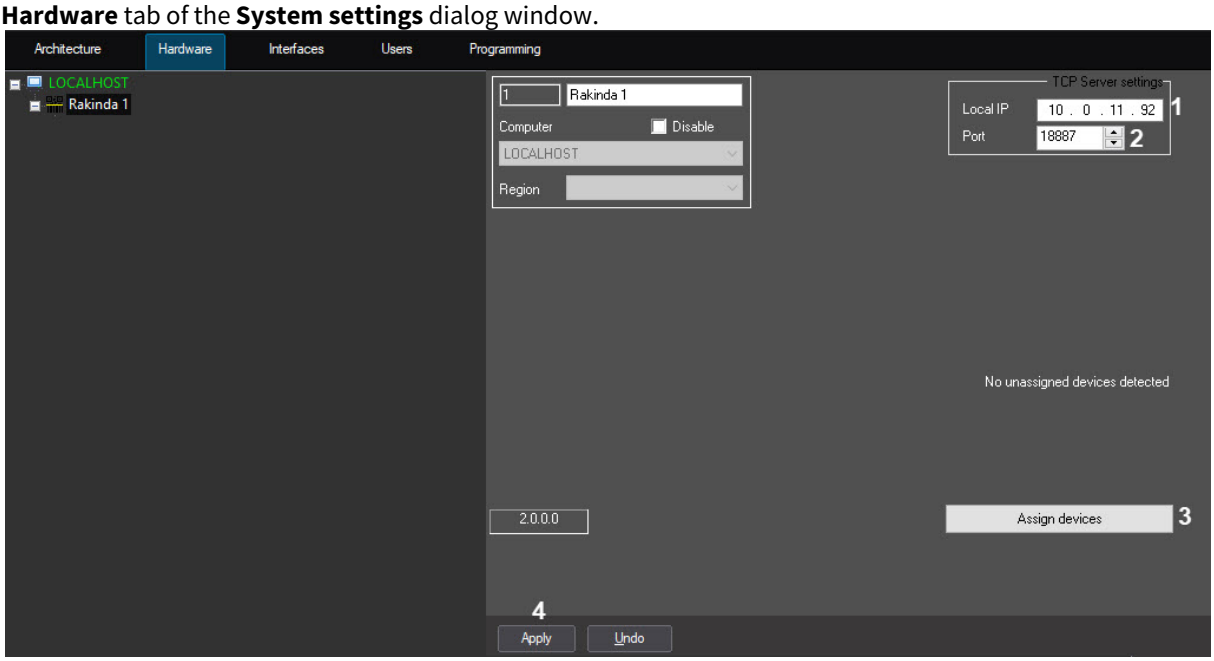

2. Specify the **Server Parameters** (**1**). The server IP address and port number must be the same in all three fields. For example, server IP address is 10.0.11.163, port number is 18887 (see figure).
3. Click the **ServerSameParam** button (**2**). A QR code will be generated (**3**).
4. Read the generated QR code with the *Rakinda* device.
5. Specify the IP address, mask and gate of the *Rakinda* device (**4**).
6. Click the **Modify device Network** button (**5**).
7. Read the received QR code using the *Rakinda* device. As a result, the specified network settings will be assigned to the *Rakinda* device.

Pre-configuration of the *Rakinda* ACS is completed.

## 3.2 Configuring the connection of the Rakinda parent object

To configure the connection of the *Rakinda* parent object, do the following:

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



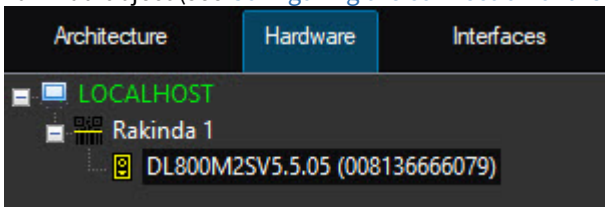

2. In the **Local IP** field (**1**), enter the IP address of the *ACFA PSIM* Server that must match with the server IP address specified at the preconfiguration stage (see Pre-configuring the Rakinda ACS).
3. In the **Port** field (**2**), enter the port of the *ACFA PSIM* Server that must match with the port number specified at the preconfiguration stage (see Pre-configuring the Rakinda ACS).
4. Click the **Assign devices** button (**3**) to find the connected *Rakinda* devices and automatically add them to the hardware tree if the devices are configured correctly.
5. Click the **Apply** button (**4**) to save the changes.

Configuring the connection of the *Rakinda* parent object is complete.

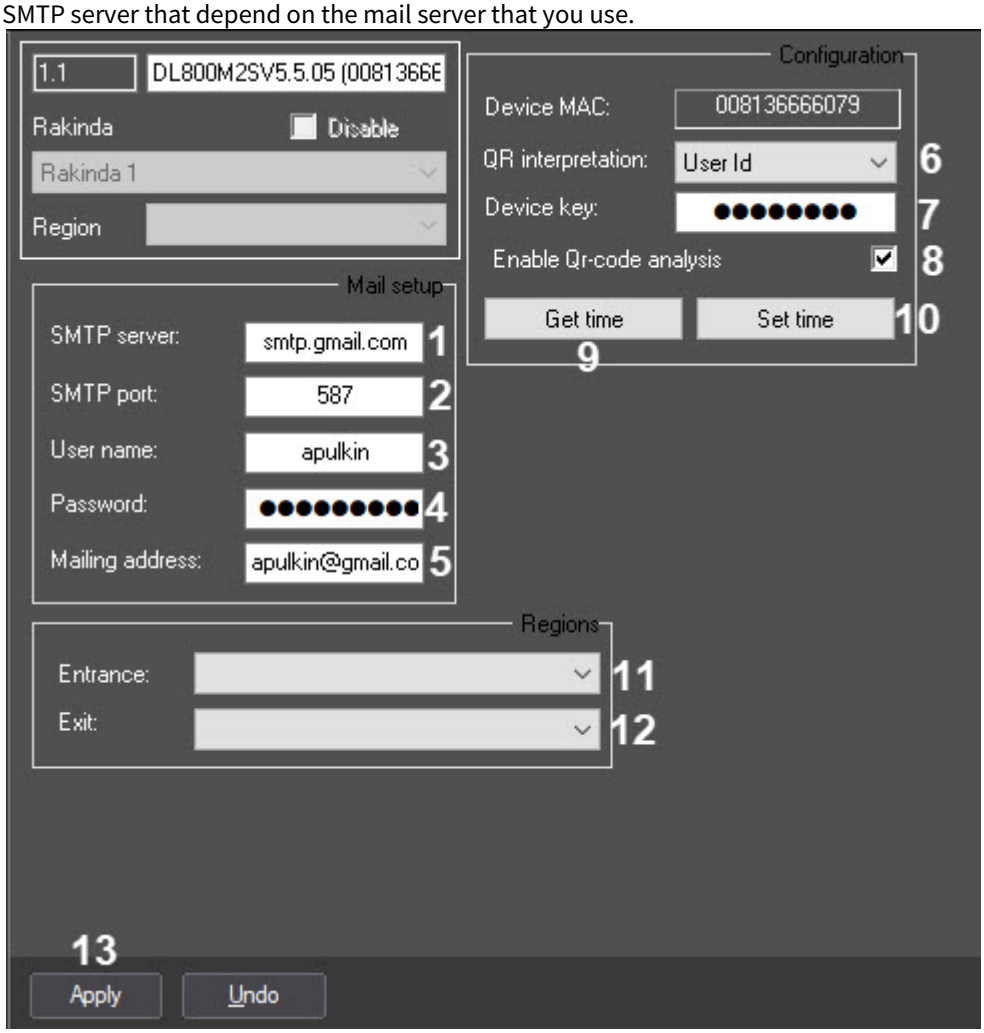
## 3.3 Configuring the Rakinda device

The *Rakinda* device is configured as follows:

1. Go to the settings panel of the **Rakinda device** object that is created automatically on the basis of the **Rakinda** object (see Configuring the connection of the Rakinda parent object).



2. In order to send the QR code generated by the *Rakinda* device to user's email, specify the settings of the SMTP server that depend on the mail server that you use.




   a. In the **SMTP server** (**1**) and **SMTP port** (**2**) fields, specify the address of the mail server and port number.
   b. In the **User name** (**3**) and **Password** (**4**) fields, specify the user's login and password.
   c. In the **Mailing address** field (**5**), enter the user's email address.
3. From the **QR interpretation** drop-down list (**6**), select the field that the device expects to see in the QR code. In this integration—only User Id.
4. In the **Device key** field (**7**), enter the device key that is specified in the *Rakinda* device passport.
5. Set the **Enable Qr-code analysis** checkbox (**8**). If the checkbox is set, when the device gets two-dimensional code, it sends it directly to the server to make a decision, or determines two-dimensional code itself.
6. Click the **Get time** button (**9**) to request the time from the *Rakinda* device.
7. Click the **Set time** button (**10**) to record time on the *Rakinda* device.
8. From the **Entrance** (**11**) and **Exit** (**12**) drop-down lists, select the user's entrance and exit regions, respectively.
9. Click the **Apply** button (**13**) to save the changes.

The *Rakinda* device configuration is now complete.

# 4 Working with the Rakinda integration module

## 4.1 General information about working with the Rakinda integration module

To work with the *Rakinda* integration module, the **Event Viewer** interface object is used.

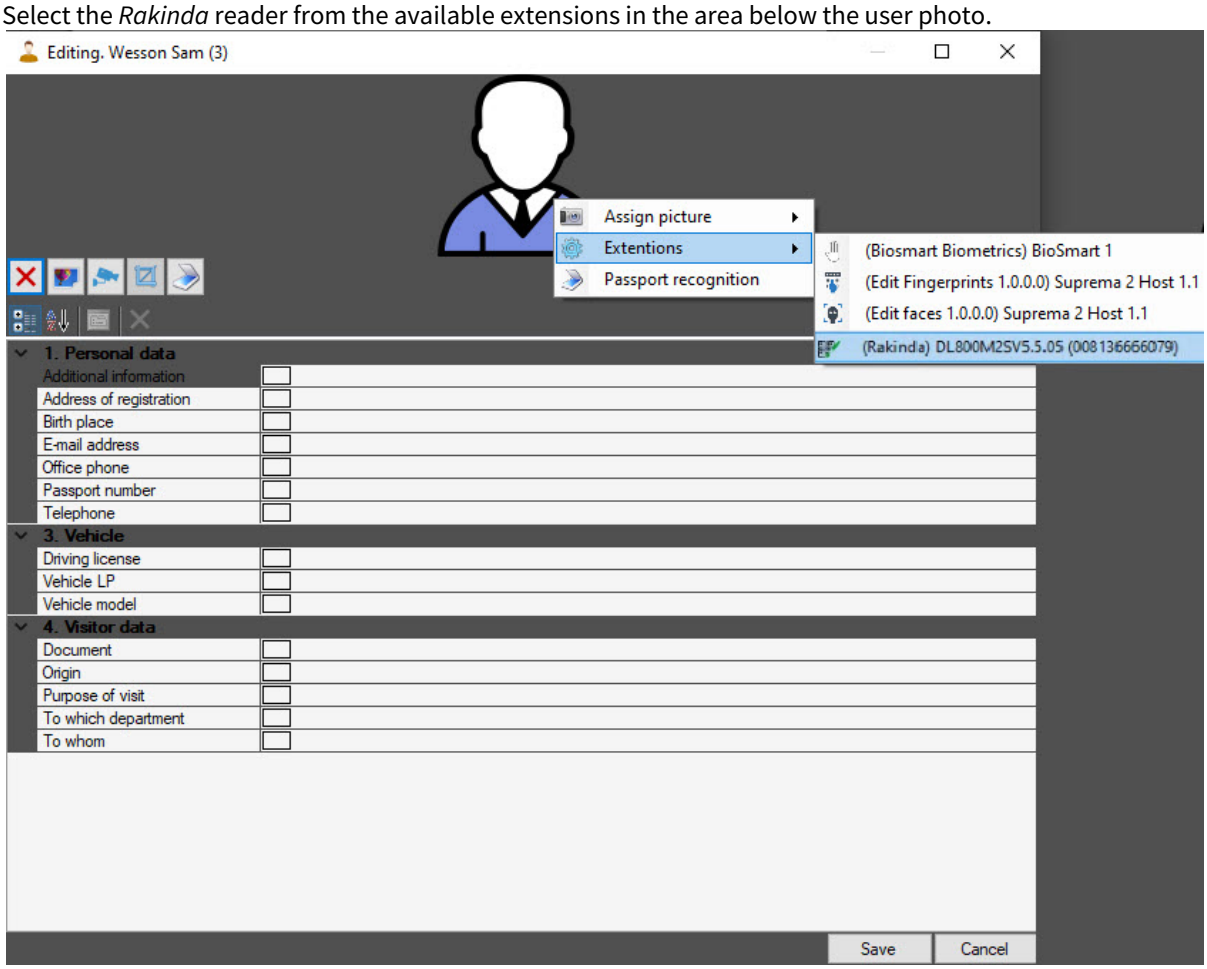
The information on how to configure this interface object can be found in Axxon PSIM Software package: Administrator's Guide.

Information on how to work with this interface object can be found in Axxon PSIM Software package: Operator's Guide.

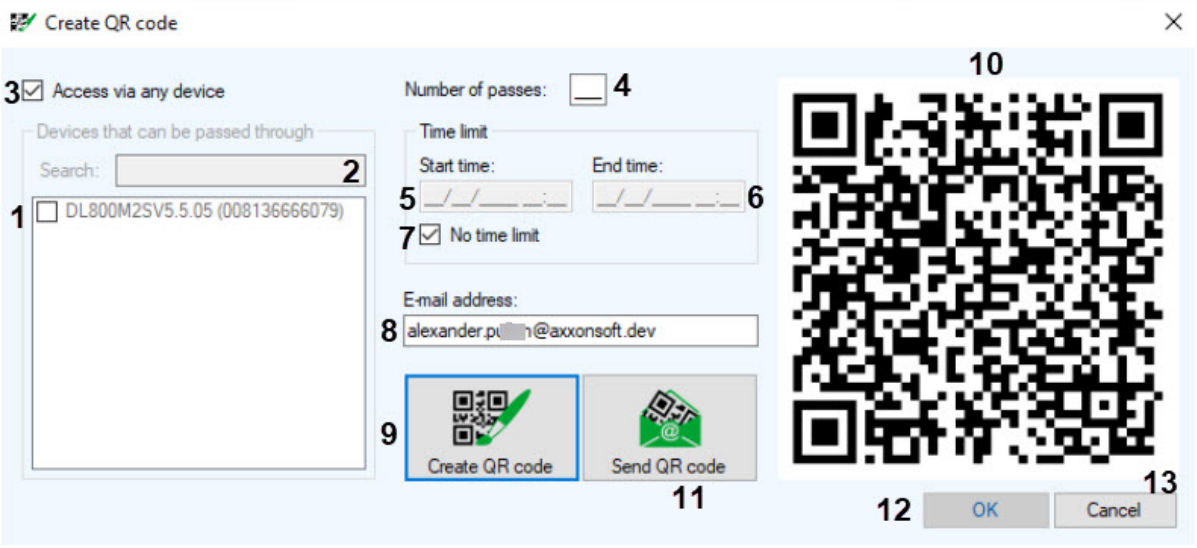
## 4.2 Working with the Rakinda QR codes

When the *Rakinda* device is connected, you can work with QR codes: generate a code, send it to the specified email address, and use it for passing. For this, do the following:

1. Add the required *Rakinda* device as a control reader (see Configuring control readers in the Access Manager).
2. Add the *Rakinda* extension in the user settings (see Adding biometric parameters).
3. Select the *Rakinda* reader from the available extensions in the area below the user photo.




As a result, the **Create QR code** window will open.




4. In the **Create QR code** window, from the list of the available devices (**1**), select the device to receive the QR code of the user and give them access.
5. You can also find the device using the search. To do this, in the search field (**2**), start entering the name of the device. The search works from the first character.
6. Set the **Access via any device** checkbox (**3**) to receive the QR code of the user and give them access on all *Rakinda* devices.
7. In the **Number of passes** field (**4**), specify the maximum number of passes, after reaching which the access will be denied.
8. In order to set the time limit of user access, enter the start time (**5**) and the end time (**6**) of the interval in the corresponding fields.
9. Set the **No time limit** checkbox (**7**) to make the user access unlimited in time.
10. In the **E-mail address** field (**8**), enter the user email address to send the QR code.
11. Click the **Create QR code** button (**9**) to generate a QR code. The generated QR code will appear in the area (**10**).
12. Click the **Send QR code** button (**11**) to send the QR code to the user. If the SMTP server is configured correctly, the image will be sent to the specified email address.
13. Click the **OK** button (**12**) to save the changes, click the **Cancel** button (**13**) to exit without saving the changes.