Roger Access Control System 5

Application note no. 061

Document version: Rev. A

RCC512 Cabinet Access Controller

Note: This document refers to RACS 5 v2.1.2 or higher

Introduction

RCC512 Cabinet Access Controller (Box Controller) can be remotely configured and managed by means of VISO software from RACS 5 system. In such scenario the communication with Cabinet Controller is provided in Ethernet by means of virtual controller from RogerSVC software package. The virtual controller is Windows service which is operated on RACS 5 server and it can support multiple Cabinet Controllers at the same time. Remote control of Cabinet Controllers requires licensed VISO management software.

Cabinet Access Controllers in network mode can be centrally managed as another elements of access control system while users can have the same Authentication Factors (e.g. Mifare cards, PINs) both for RACS 5 and Cabinet Controller. In case of Cabinet Controllers, VISO operator can:

- Enrol users and their Authentication Factors (e.g. Mifare cards, PINs).
- Define Authorisations for cabinets/boxes.
- Monitor the Cabinet Controller in regard of alarms and failures including automatic alerts and notifications (email, mobile text).
- Monitor allocation/occupancy of cabinets (pool mode)
- Generate reports based on events registered by RCC512.

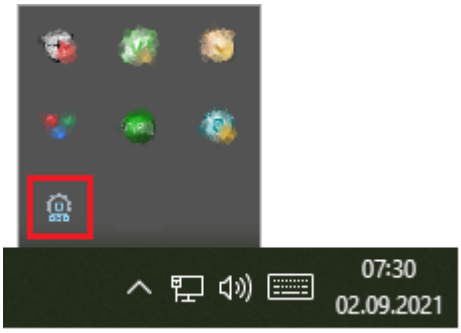
Preliminary configuration of RACS 5

In order to conduct preliminary configuration of RACS 5:

- Install VISO software according to AN006 application note and create centralized database according to AN017 application note.
- Install RogerSVC software and select not only Communication Server but also License Server and Virtual Controllers Server. If servers are supposed to be operated on individual computers then install RogerSVC on each computer selecting required servers.

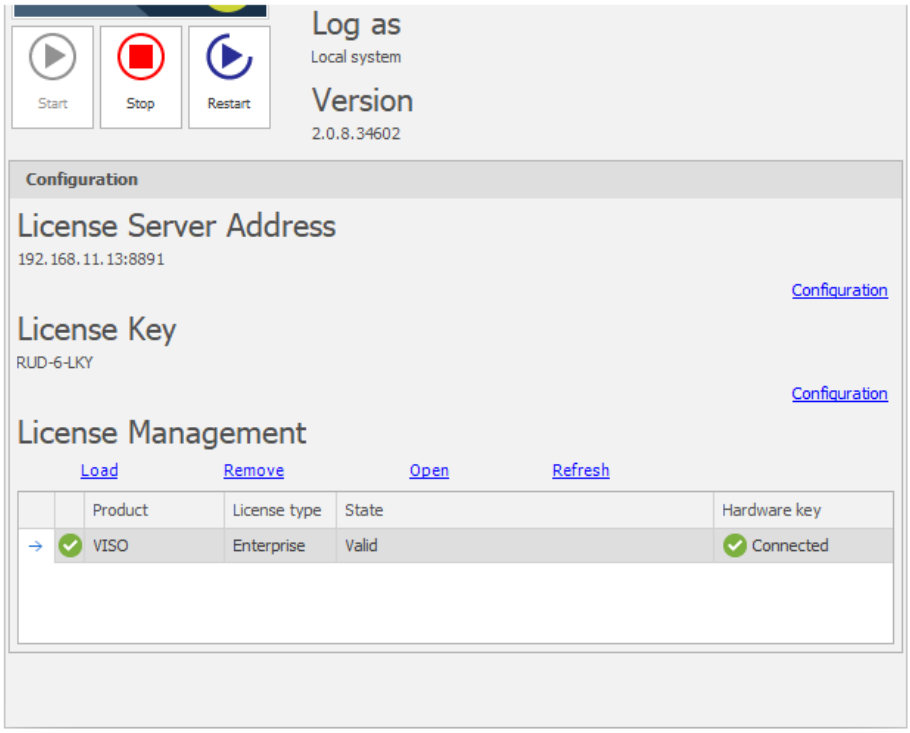
Note: If License Server and Virtual Controllers Server are supposed to be operated on individual computers then during installation of Virtual Controllers Server, the License Server must be deselected. Only in such case it will be possible to indicate external License Server when Virtual Controllers Server is configured.

- Start RogerSVC program selecting *Start->ROGER->RogerSVC* in Windows menu.
- Click RogerSVC icon in Windows tray.

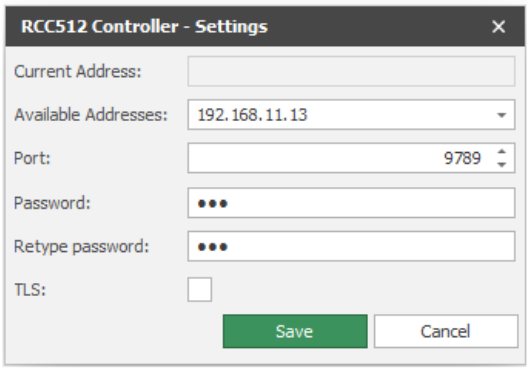


- In the RogerSVC window select *Database Connection* tile and then *Configuration* to indicate previously created RACS 5 database. Return to the main window.

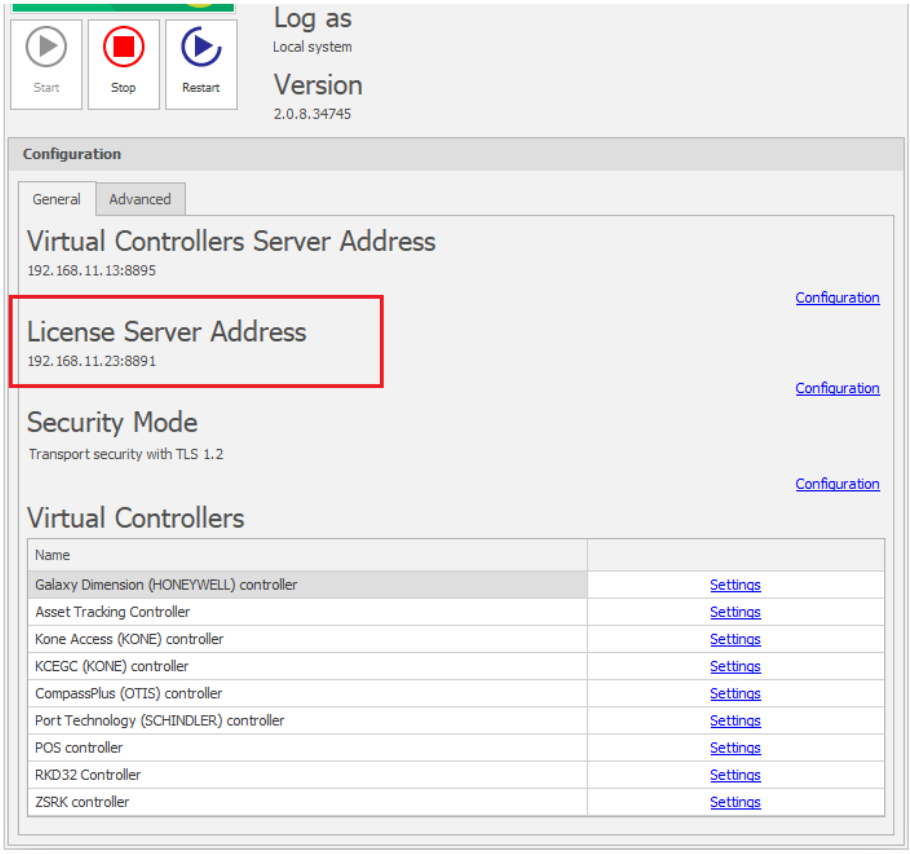
- In the RogerSVC window select *Communication Server*, click *Configuration,* enter IP address of the computer with the server installed e.g. 192.168.11.13 and define port (8890 by default).
- Select *Start* and return to the main window. The server will be started and operated in the background whenever the computer is switched on even if RogerSVC window is closed.
- Connect RUD-6-LKY hardware key to USB port of computer with License Server installed or connect RLK-1 hardware key to LAN and enter its IP address.
- In the RogerSVC window select *License Server* tile, click *Configuration,* enter IP address of the computer with the server installed e.g. 192.168.11.13 and define port (8891 by default).
- Select *Load license file* and indicate purchased license file for hardware key.
- Select *Start* and return to the main window. The server will be started and operated in the background whenever the computer is switched on even if RogerSVC window is closed.



- In the RogerSVC window select *Virtual Controllers Server* tile, click *Configuration*, enter IP address of the computer with the server installed (e.g. 192.168.11.13) and define port (8895 by default).
- Additionally in the line of *RCC512 Controller* select *Settings* and in the opened window configure the controller. The same settings will be further used in configuration of the RCC512 device. Close the window with *Save* button.



- If contrary to previously presented configuration steps, the License Server is installed on a computer with exemplary 192.168.11.23 address while Virtual Controllers Server is installed on computer with exemplary 192.168.11.13 address then it is possible to indicate external License Server for virtual controllers as below.

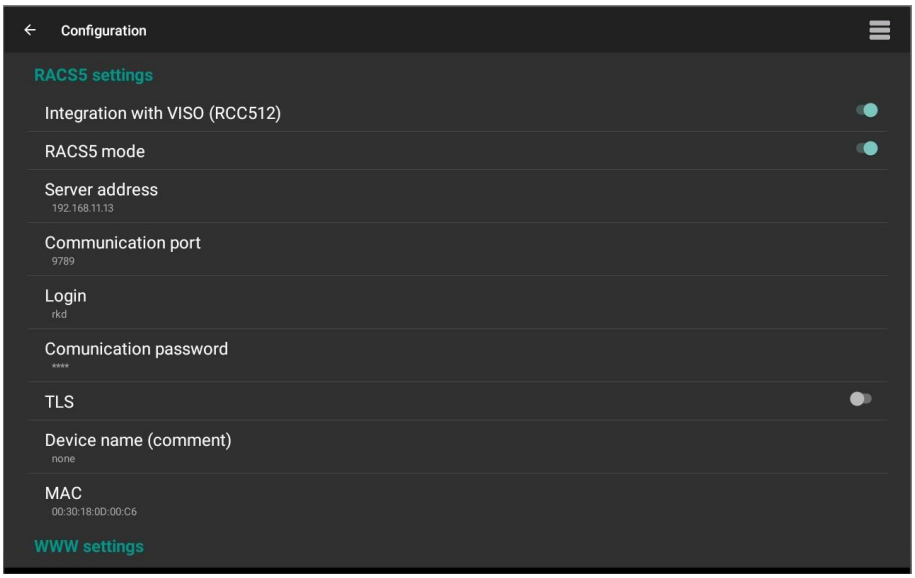


- Select *Start* and return to the main window. The server will be started and operated in the background whenever the computer is switched on even if RogerSVC window is closed.
- Start VISO software, in the top menu select *System*, then *Select License Server* and indicate previously defined License Server from RogerSVC software in order to start the VISO program in licensed version.

RCC512 configuration

The configuration of RCC512 device is done by means of its touch panel. When started for the first time then operating mode must be selected. Based on RCC512 Operating Manual it is necessary to configure parameters in the section *RACS 5 settings* according to previous configuration of virtual controller. It is also recommended to note MAC address as it may be later required to detect and distinguish controllers in VISO software.

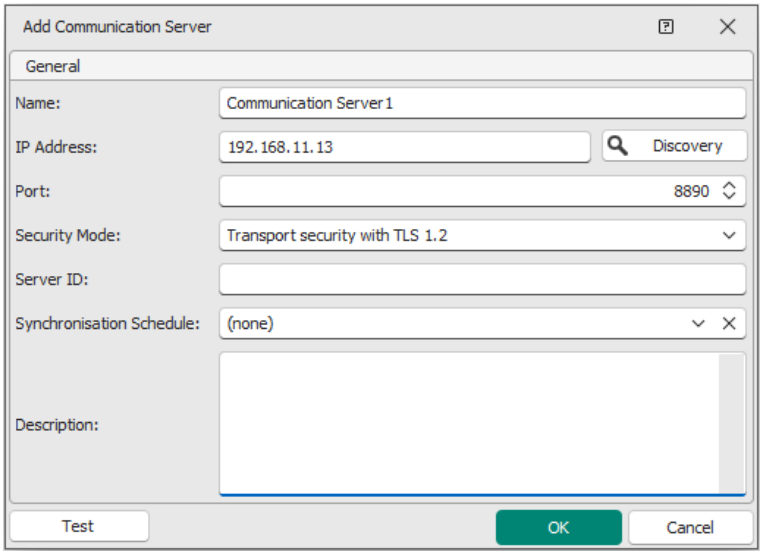
Note: The login must always be 'rkd'. Other values will not be recognized in RACS 5 system. The password can be defines as needed.



Connection with Cabinet Access Controller

In order to configure virtual controller:

- If Communication Server is not already configured in VISO software then in the navigation tree of VISO software right click *Networks* command and select *Add Communication Server*.
- In the opened window enter parameters of Communication Server previously configured in RogerSVC program and close the window with *OK* button. It is recommended to apply TLS 1.2 mode to encrypt the communication.



- In the navigation tree right click *Virtual Controllers Server* and select *Add Server*. In the opened window enter parameters of Virtual Controllers Server previously configured in RogerSVC program and click *OK*. It is recommended to apply TLS 1.2 mode to encrypt the communication.
- In the navigation tree right click the server and select *Add Virtual Controller*. In the section *Key Cabinets* select *RCC512 Controller*. If the controller is not on the list, then most probably there is license error on the level of VISO software or RogerSVC software. Close the window with *OK* button.
- In the navigation tree right click the controller and select *Add Cabinet Access Controller*.

- In the opened window select *Detect* in order to fill panel parameters or manually enter MAC address of the controller. Close the window with *OK* button.

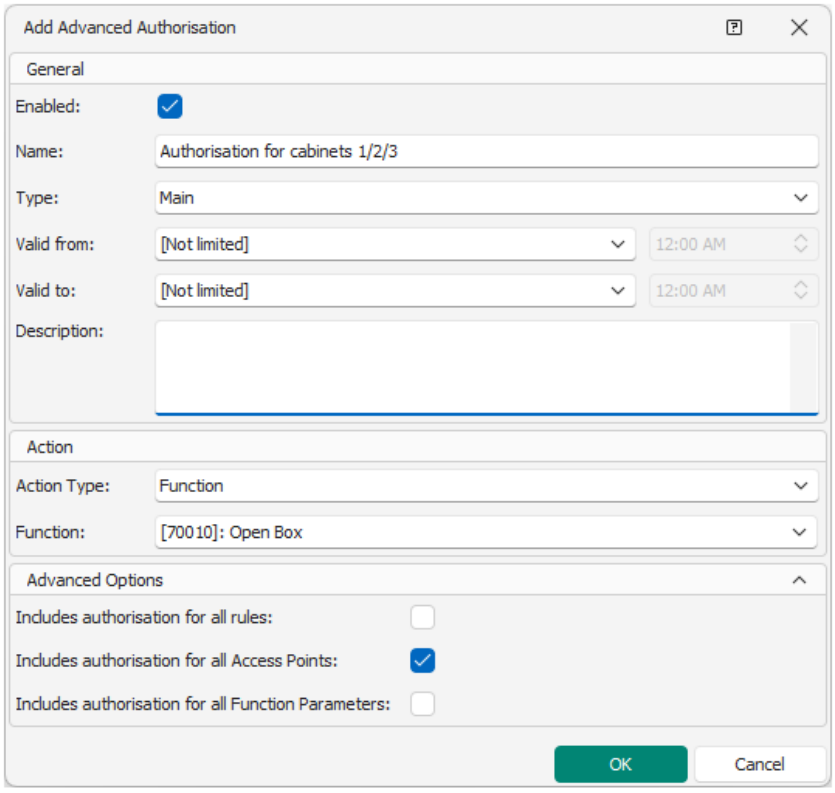
Note: For the communication of VISO and RCC512 controller it may be necessary to add rule in Windows firewall in regard of ICMP protocol using following exemplary command:

```
netsh advfirewall firewall add rule name="ICMP Allow incoming V4 echo request" protocol=icmpv4:8,any dir=in action=allow
```

Authorisations

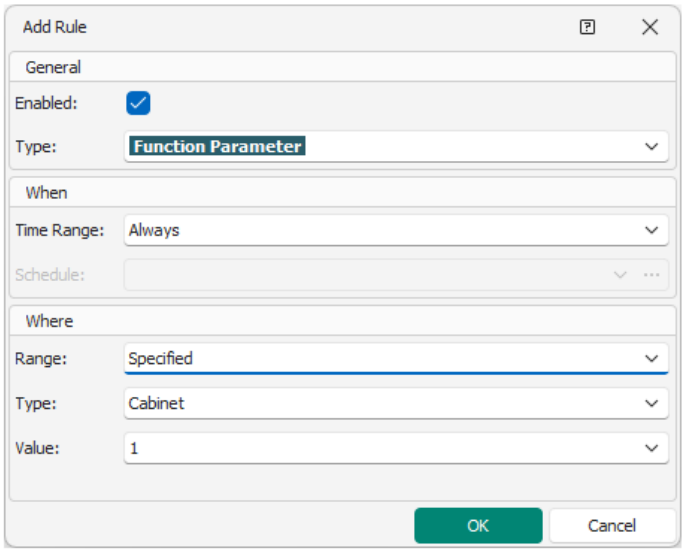
In order to define Advanced Authorisation for cabinet/box opening:

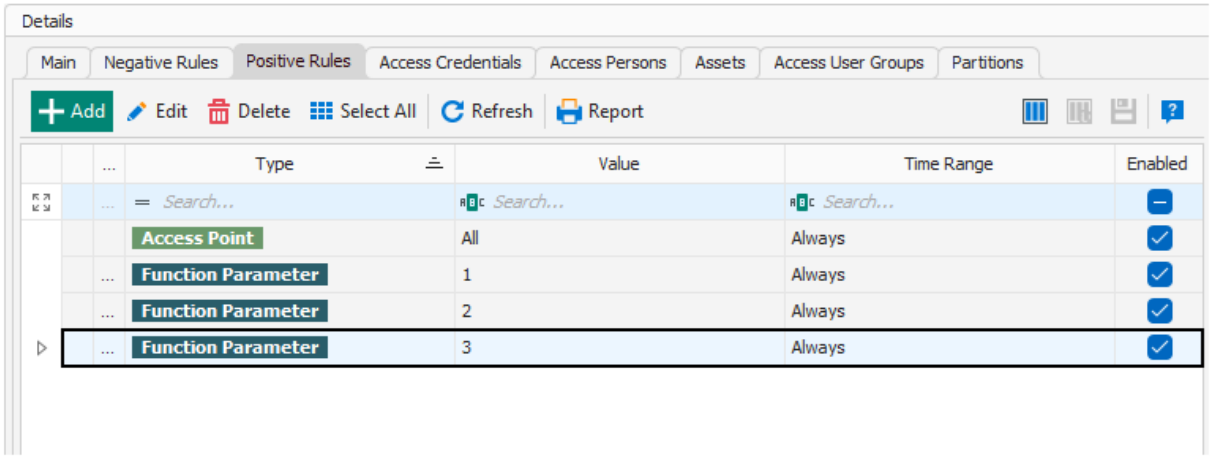
- In the navigation tree of VISO software expand *Authorisations* command and double click *Advanced Authorisation* command.
- In the opened window select *Add*, then in the next window name the Authorisation and select the function *[70010].* If the option *Include authorisation for all rules* is enabled then the Authorisation will allow to open all cabinets for all Cabinet Controllers without further defining of Positive rules. If the option *Includes authorisation for all Access Points* is enabled then the Authorisation will concern all Cabinet Controllers. If needed, this can be further specified using *Access Point* type Positive Rule.



- In the bottom select *Positive Rules* tab and then *Add*.
- In the opened window select *Function Parameter* as *Type*, *Specified* as *Range* and particular cabinet/box as *Value*. The rule (as below) will allow to open cabinet 1. There can be up to 64 rules included in the Authorisation. Therefore in the system there can be defined individual Authorisations for each cabinet and there can also be defined collective Authorisation for multiple cabinets using multiple rules within single Authorisation. Close the window with *OK* button.

Note: Schedules (*Time Range* parameter) are not supported by RCC512 controller.



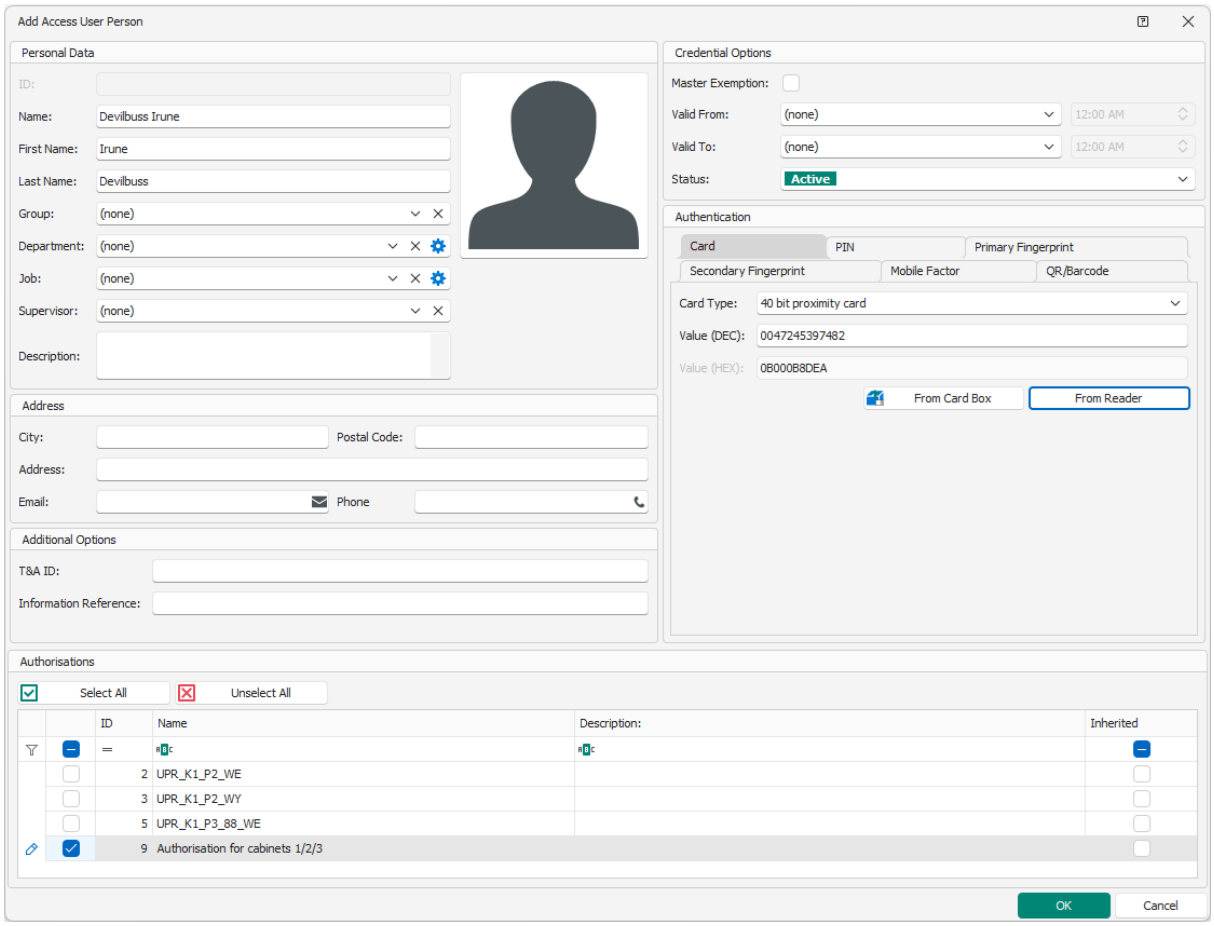


Users

The management of users (Persons) in the system can be done with wizards. Add Person online wizard can be accessed by selection of *Wizards->Add Person online* in the top menu of VISO software while Add Person quickly wizard can be accessed on the start page of VISO software and on the list of Persons. The use of the Add Person Quickly wizard is explained in AN051 application note. The minimal configuration consists in naming the Person, assigning Authentication Factor (e.g. card) and assigning Authorisation(s).

When Person is defined and the option *Master exemption* is enabled then such user will be granted unlimited Authorisation in the system including access to all doors and cabinets/boxes.

Note: In current version of the system, users can be defined with wizards but in order to upload them to RCC512 controller it is necessary to make full synchronisation. This can be done for example by right clicking *Networks* in the navigation tree of VISO software and then selecting *Synchronise*.

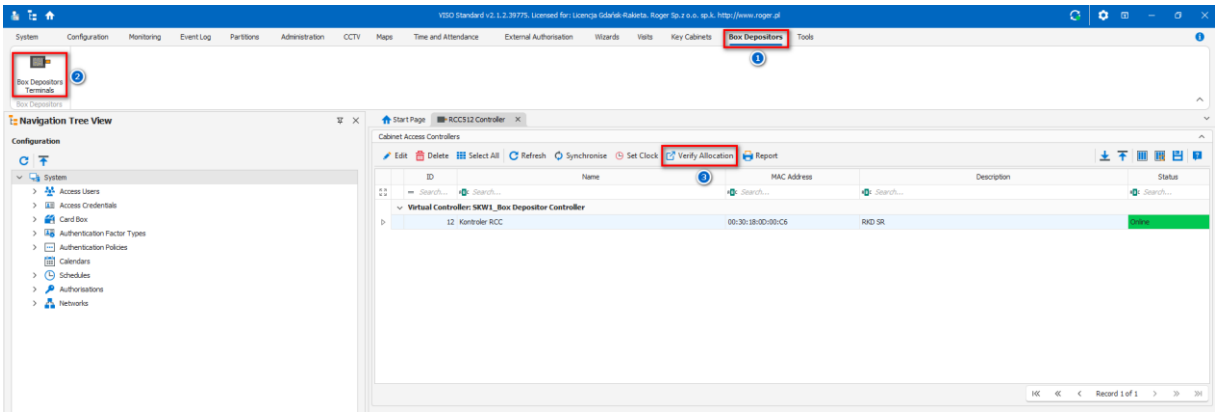


Monitoring

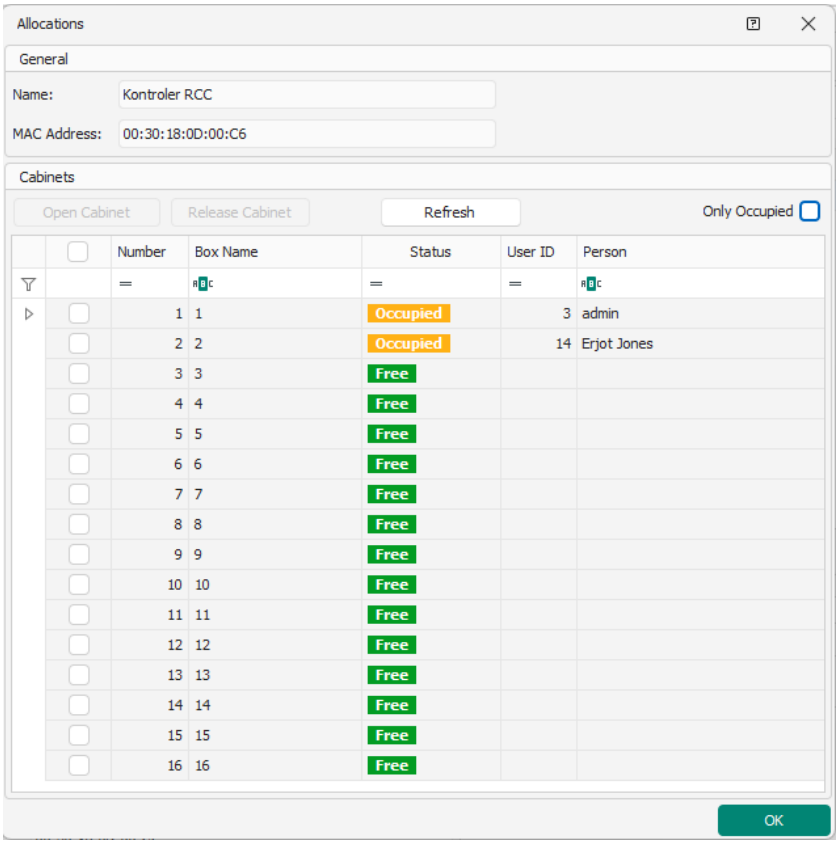
In RACS 5 system events are generated for various actions and conditions. Events can be browsed after selection of *Event log* in the top menu of VISO software and then *Event log* or they can be monitored in real time after selection of *System Monitors* in the top menu of VISO software and then *Event Monitor*. In both cases events can be filtered.

Allocation verification

If the RCC512 controller is started in pool mode then it is possible to verify which cabinets/boxes are occupied after selection of *Verify Allocation* on the list of Cabinet Access Controllers.

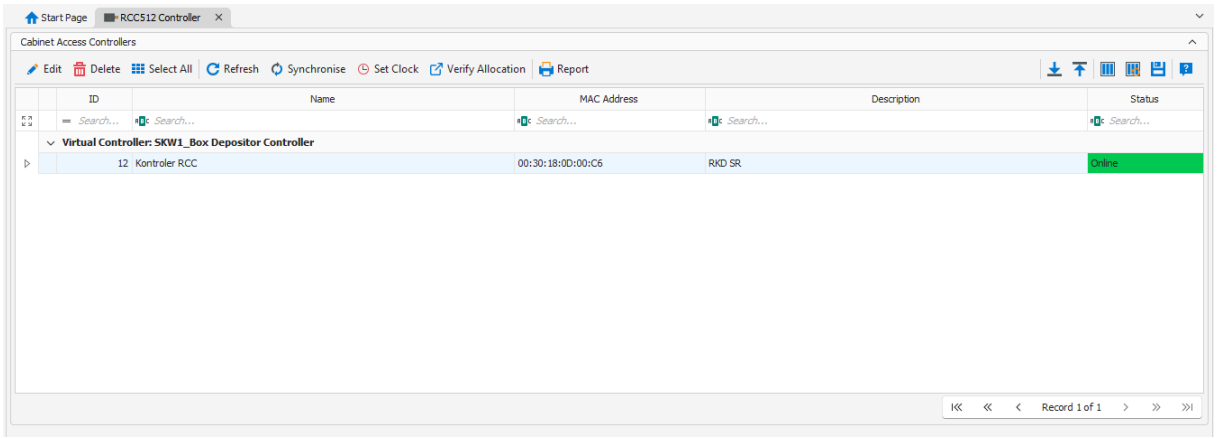


The list includes statuses for all cabinets and information on Person who occupied particular cabinet. Statuses are updated automatically and it is possible to open and release a cabinet remotely.



Communication

The communication with RCC512 controller is monitored and events are generated both for lost and restored communication. Additionally, current status of connection with Cabinet Access Controllers is presented on the list of cabinets in VISO software. Lost connection is reported within a few seconds from its occurring.



Users and alarms

RACS 5 system registers events related to user logging as well as cabinet opening and closing. Additionally various alarm events related to door forced open, tamper, door open too long are also registered in the system.

Alerts and notifications

Automatic reaction of the system for event can be defined by selection of *Event log* in the top menu of VISO software and them *Event types* icon and *Actions* tab in the bottom. Typical actions are alert displaying for operator acknowledgement, mobile text (SMS) sending and email sending. In case of mobile texts and emails it is necessary to configure SMTP Account(s) and SMS Gateway(s) by selection of *Tools* in the top menu of VISO software. More information on alerts and notifications is given in AN041 application note.

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