

Roger Access Control System 5

Application note no. 005

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RACS 5 software and PC requirements

Introduction

The RACS 5 software consists of following main components:

- RogerVDM
- VISO
- RogerSVC
- Communication Server
- Integration Server
- License Server
- Database

All mentioned programs can be installed either in LAN or WAN. Communication between programs in RACS 5 system is conducted by means of WCF technology. Communication between PC software and access controllers is encrypted with AES128 CBC method.

Roger VDM

This program operates as a Windows application and is dedicated to so called, low-level configuration of RACS 5 hardware (controllers, reader, expanders). It is used during system installation and does not need connection neither to database nor any other RACS 5 software. Usually it is installed on installer's laptop.

VISO

This program operates as Windows application and is dedicated to configuration of RACS 5 high-level logic as well as management of RACS 5 day-to-day operations. VISO can be installed and started on multiple workstations enabling simultaneous management of RACS 5 by multiple operators. The program operator rights (roles) can be defined individually. The VISO application is available in two versions: VISO ST and VISO EX. VISO ST is a standard version of VISO application which is distributed free of charge and does not require RUD hardware license key. The VISO EX is an extended version of VISO application and it requires license as well as RUD hardware license key.

Roger SVC

This program operates as Windows application dedicated to configure Windows services of RACS 5 system i.e. Communication Server, Integration Server, License Server, etc.

Communication Server

This program operates as a Windows service and provides communication between access controllers and RACS 5 software. If the RACS 5 system is using MS SQL Server Compact database then the Communication Server must be installed on the same PC as database.

Integration Server

This program operates as a Windows service and provides an API interface for third party programs. The Integration Server enables access to system database and offers range of API functions which can be used either to configure the system (system synchronization) or trigger system action (e.g. remote door opening, alarm clearance, automation control etc.).

License Server

This program operates as a Windows service and is responsible for validation of system license particularly when VISO EX is applied. The hardware key must be connected to the USB port of the computer where the License Server is running.

Database

RACS 5 can operate with following types of database:

- Local type MS SQL Server Compact
- Centralized type MS SQL Server e.g. Express, Standard (2005 or higher)

The local type MS SQL Compact database can be created as local file by VISO program and it does not require additional installation nor configuration of any other software. In case of centralized MS SQL Server database it is necessary to download and install SQL Server system from Microsoft webpage and then to create the database in such system using VISO program. Both methods are explained respectively in AN006 and AN017 Application Notes which are available at www.roger.pl.

PC Requirements

The information presented below has an informative character. Generally the more powerful PC the more effectively the software operates. The PCs used for RACS 5 system should be selected in conjunction to the system size and required responsiveness.

RogerVDM (recommended)

- RAM: 2 GB
- CPU: Intel Celeron or equivalent
- HDD: 100MB

VISO (recommended):

- RAM: 4 GB (8 GB for large systems*)
- CPU: Intel Core i5 or equivalent (Core i7 for large systems*)
- HDD: 500 MB for VISO and up to 4GB for MS SQL Compact database (if applicable), SSD recommended for MS SQL Compact database
- Minimal screen resolution 1280x1024

* more than 50 access controllers and/or hundreds of users

RogerSVC (recommended)

Small systems (up to 5 access controllers)

- RAM: 4 GB
- CPU: Intel Core i3/i5 (2 cores) or equivalent
- HDD: 500 MB

Medium systems (5 to 50 access controllers)

- RAM: 4 GB
- CPU: Intel Core i5/i7 (4 cores) or equivalent
- HDD: 500 MB

Large systems (more than 50 access controllers)

- RAM: 8 GB
- CPU: Intel XEON (8 cores) or equivalent
- HDD: 500 MB

Local database (recommended):

See VISO requirements

Centralized database requirements:

See Microsoft requirements.

<http://msdn.microsoft.com/en-us/library/ms143506%28v=sql.105%29.aspx>

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