

# RACS 5

*Enterprise-class Scalable*  
Access Control, Security  
and Automation System

**roger**

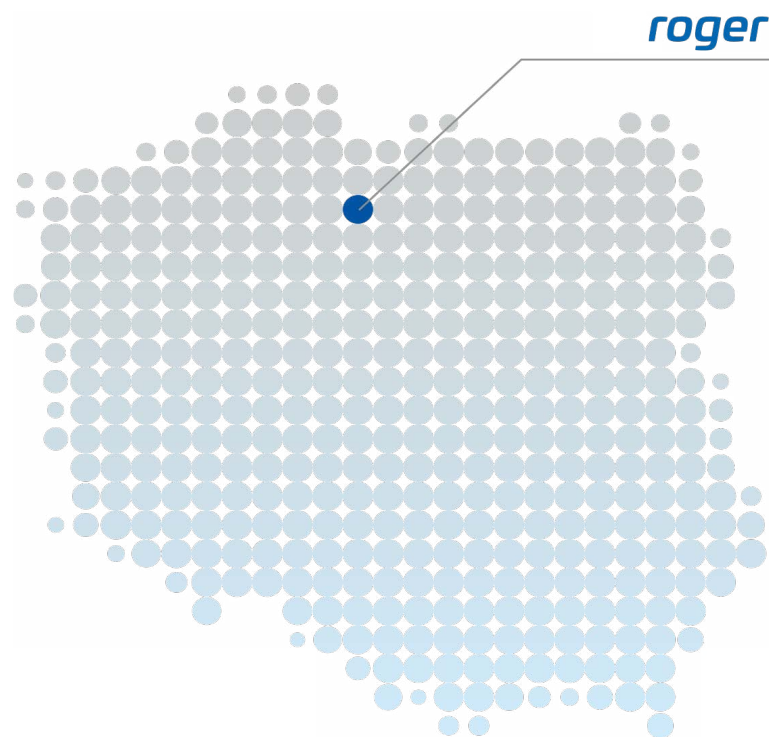
Intelligence for Building

## RACS 5 System Introduction



# ROGER Company

- 30 years of experience in the security systems designing, manufacturing and sale
- Domestic and worldwide distribution network covering more than 40 markets spanning across 3 continents
- Design and manufacturing within single organization operated in Poland
- Possible customization of functionalities for particular projects
- Wide range of supporting services for customers
- Continuous development of offered solutions



## RACS 5

*Enterprise-class Scalable  
Access Control, Security  
and Automation System*



# RACS 5 System

RACS 5 system is a group of hardware and software products designed for physical access control, time & attendance and building automation control. The system can be integrated with CCTV, intruder alarm systems and fire alarm systems. The RACS 5 additionally offers access control and other functionalities for lockers, elevators, hotel rooms and car parks. The access control can be wired.



## RACS 5

*Enterprise-class Scalable  
Access Control, Security  
and Automation System*

## Scalable Access Control System with Building Automation

The RACS 5 is scalable and it can be applied in all kinds of projects including small ones with single access door, medium ones with dozens of access doors and large ones with a few hundred doors both within single premises (e.g. office building, barracks, stadium etc.) or distributed in multiple locations (group of shops, cellular transceivers, pumping stations etc.).

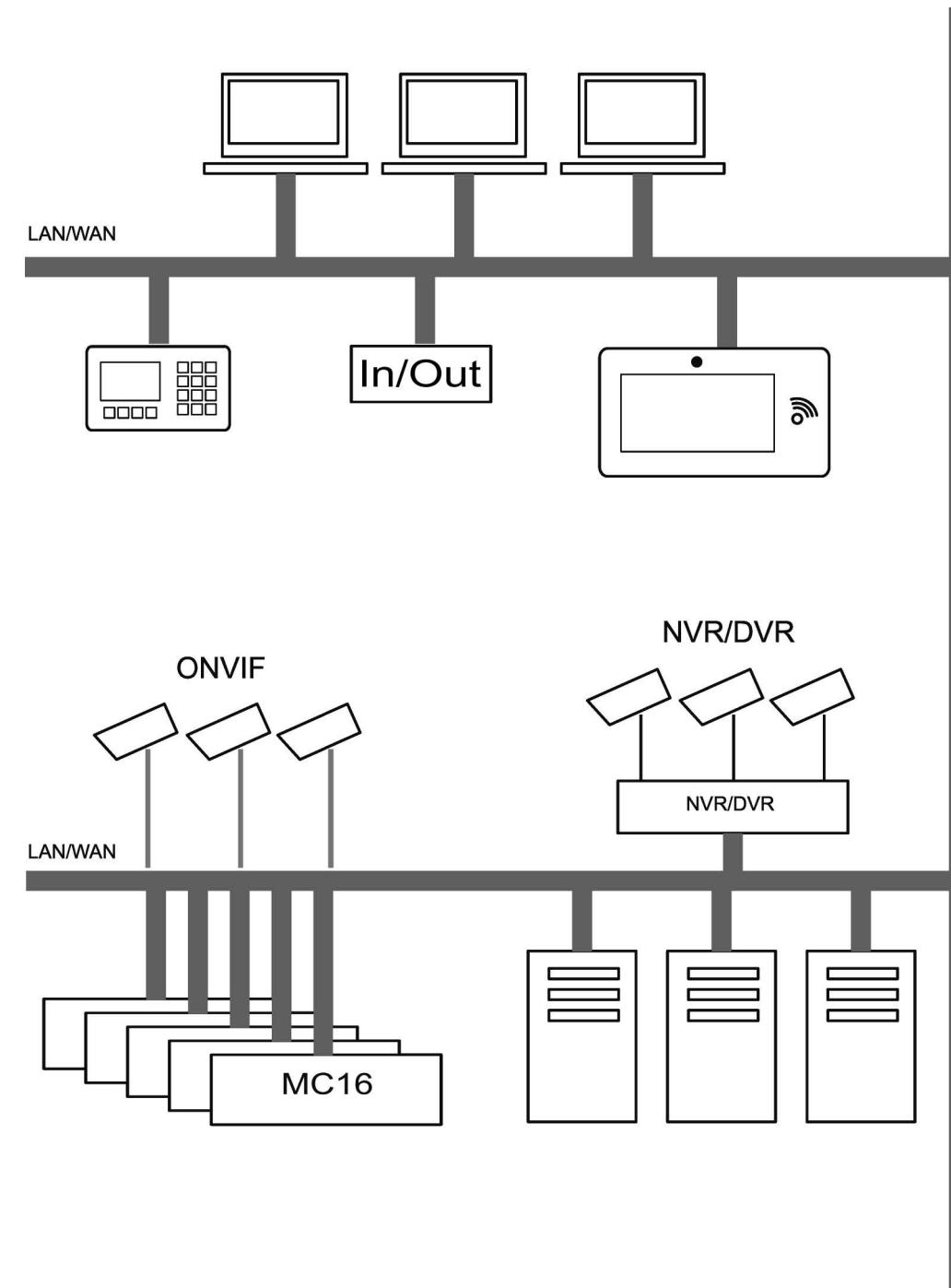
**RACS 5**

*Enterprise-class Scalable  
Access Control, Security  
and Automation System*

# RACS 5 Hardware

## Hardware:

- Access controllers for doors, elevators, lockers, building automation, hotel rooms and car parks
- Intruder alarm controller
- Terminals for identification with MIFARE® and EM 125 kHz proximity cards
- Terminals for identification with NFC/BLE mobile devices
- MD70 graphic touch panel
- I/O expanders



# RACS 5

Enterprise-class Scalable  
Access Control, Security  
and Automation System

# RACS 5 Software

- VISO desktop software for management and monitoring of RACS 5 system
- VISO Web software for management and monitoring of RACS 5 system with web browser
- VISO Mobile app for management and monitoring of RACS 5 system with mobile device
- RCP Master for advanced Time & Attendance
- RogerVDM for low level configuration of RACS devices
- RogerSVC software with Windows Services and virtual controller
- MS SQL database (client-server architecture)
- Integration server

## RACS 5

Enterprise-class Scalable  
Access Control, Security  
and Automation System



**Access Points**  
doors, elevators,  
floors

**Automation Nodes**  
building automation

**Alarm Zones**  
alarm system control



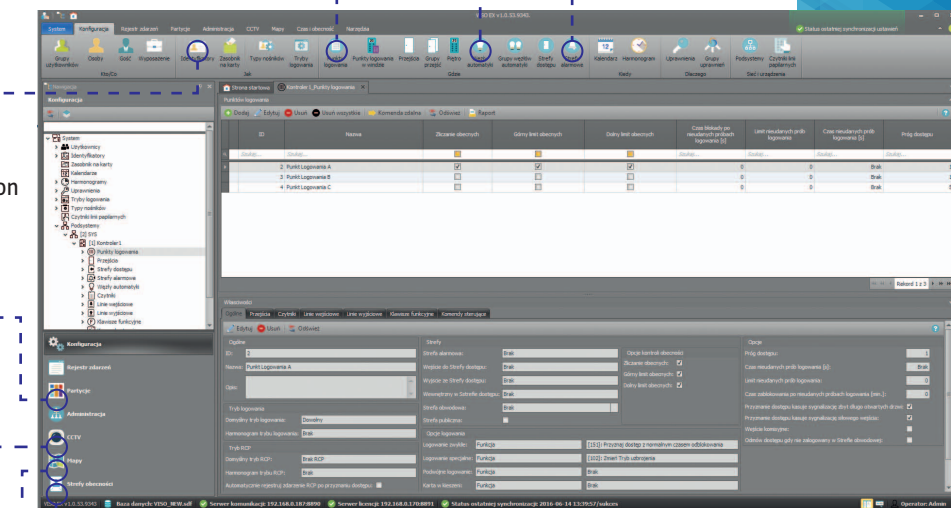
**Access Credentials**  
various authentication  
factors



**Partitions**  
system division  
to landlord-tenant  
partitions



**CCTV**  
integration with  
DVR/NVR



**Maps**  
online monitoring  
on graphical background



**Attendance Zones**  
time and attendance



# Hotel Solutions

- Management and control of hotel rooms with dedicated MC16-HRC controller
- Support for wired and wireless locks
- Dedicated MCT82M-IO-HR entry reader
- MCT82M-IO-CH card holder and MCT86M-IO-CH-HR card holder with 4 function keys
- Terminals for surface mounting
- Integration with hotel system based on Integration Server

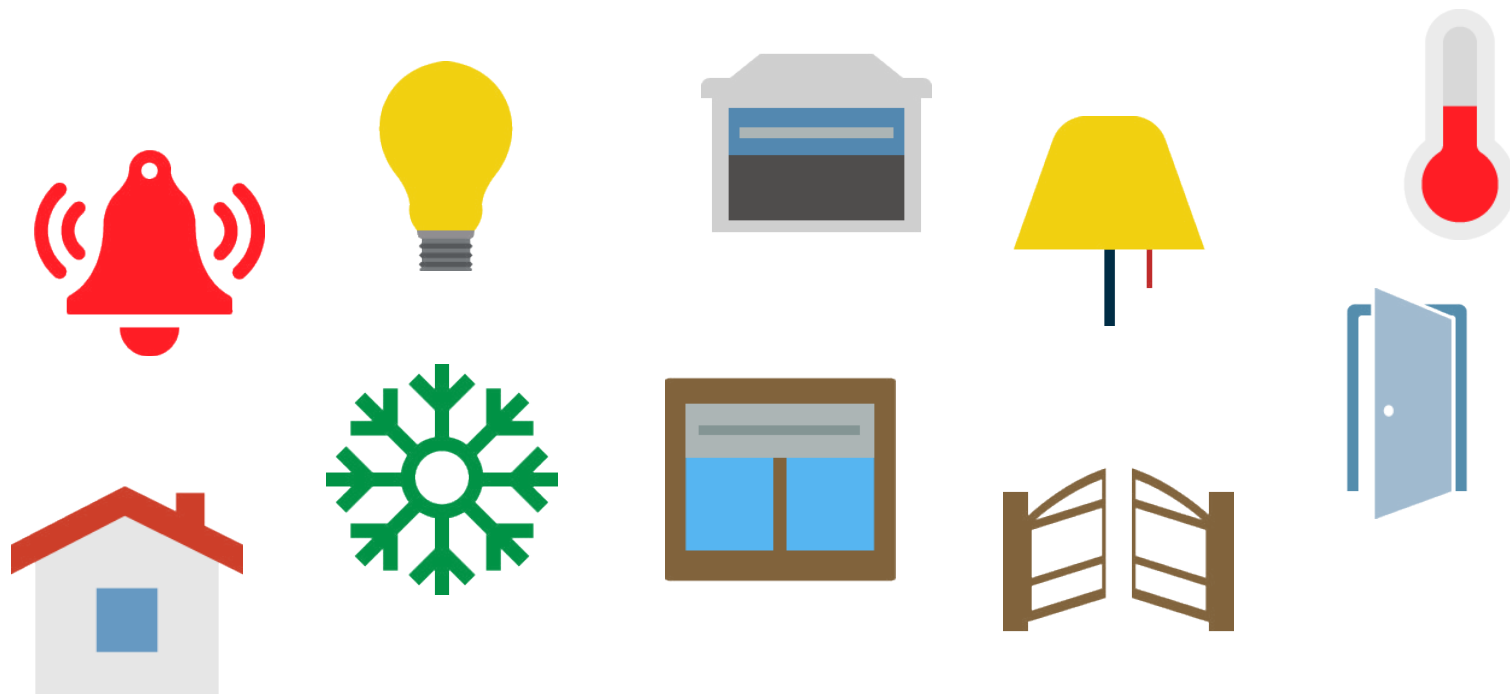


## RACS 5

Enterprise-class Scalable  
Access Control, Security  
and Automation System

# Building Automation Solutions

- Building automation management with dedicated MC16-BAC controller
- Monitoring and reporting of automation statuses
- Manual control of automation from RACS 5 terminals
- Remote control of automation from VISO software
- Automation control based on schedules and calendars
- Access automation requiring user authorization
- Further automation control extension based on Integration Server



## RACS 5

Enterprise-class Scalable  
Access Control, Security  
and Automation System



## Car Park Solutions

- Car park management with dedicated MC16-AZC controller
- Anti-passback and timed Anti-passback
- Access denying when maximal limit for cars is reached
- Access based on schedules and calendars
- The number of cards displayed on mobile device (e.g. tablet)
- Car park monitoring with VISO software

RACS 5

*Enterprise-class Scalable  
Access Control, Security  
and Automation System*

# Selection of Devices and Designing

## Scenario I – MC16-PAC-x-KITs with MCT readers

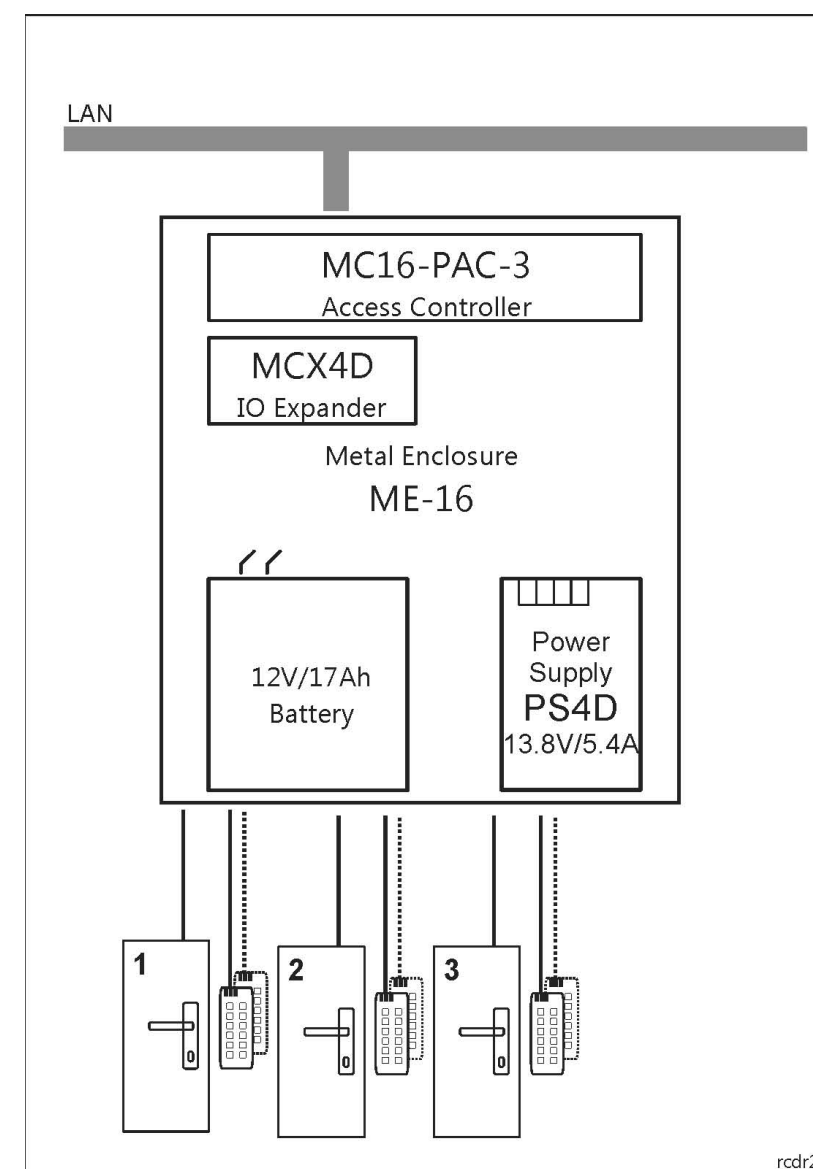
The scenario includes 1-4 doors access controllers equipped with adequate expanders and power supplies installed in metal enclosures. Usually MCT readers without built-in I/Os are installed but MD70 panels can also be applied.

### Advantages:

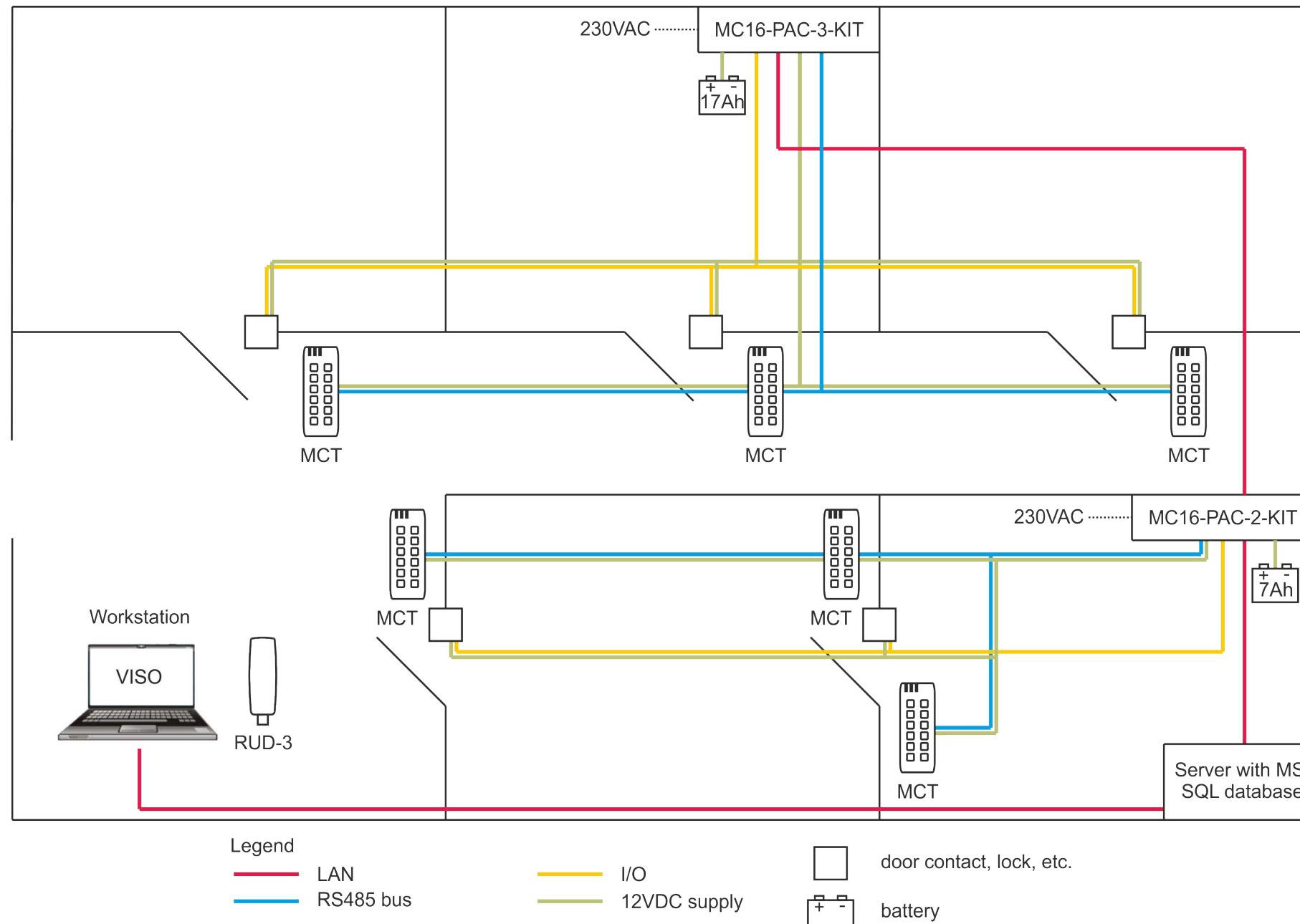
- Easy designing and selection of devices
- Versatile applications
- High security level as door lock relays are not installed near doors

### Limitations:

- Only 1-4 door access controllers



## Scenario I



### Selection Rules:

- The number and type of kits depend on the total number of doors
- The number of terminals depends on the number of read-in and read-in/out doors
- U/UTP cat. 5 cabling for communication with controller (Ethernet) and between controller and readers (RS485)

# RACS 5

Enterprise-class Scalable  
Access Control, Security  
and Automation System



## Selection of Devices and Designing

### Scenario II – MC16 controllers with MCT-IO readers

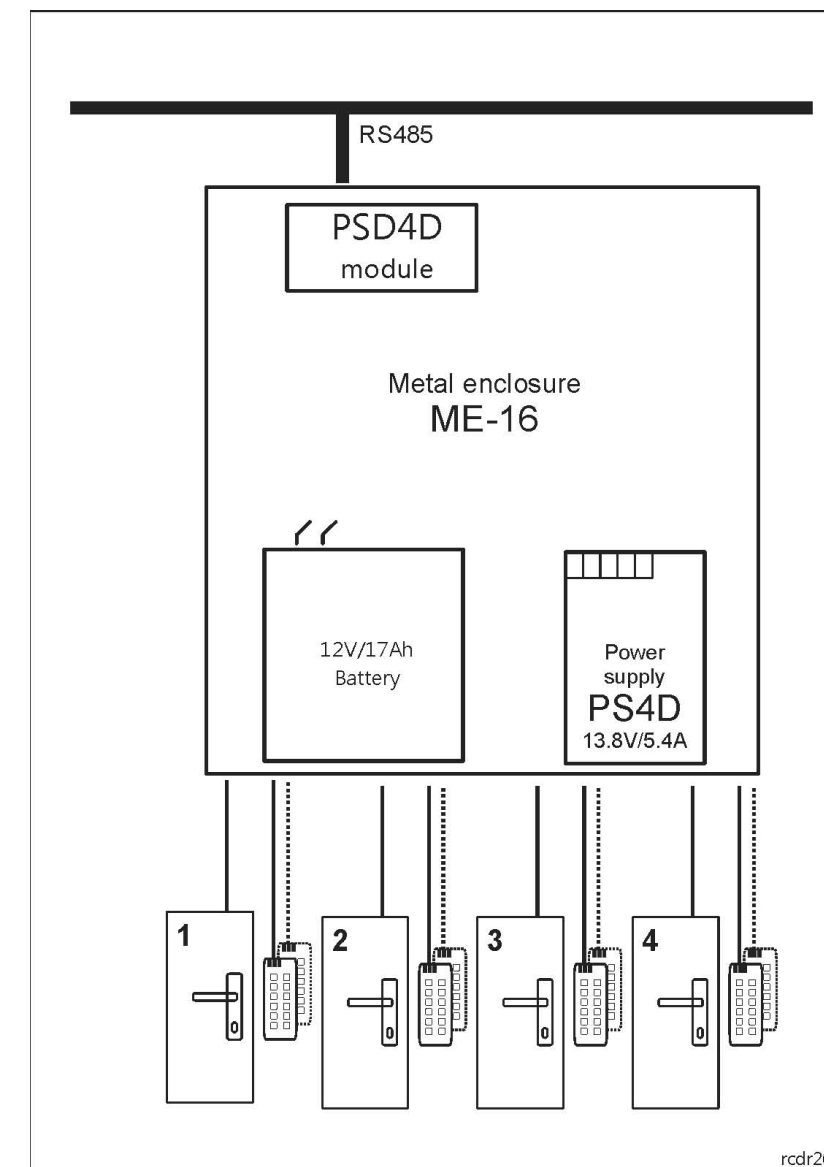
The scenario includes multidoor controllers and MCT readers equipped with built-in I/Os. The scenario is mainly applied in case of internal doors in premises.

#### Advantages:

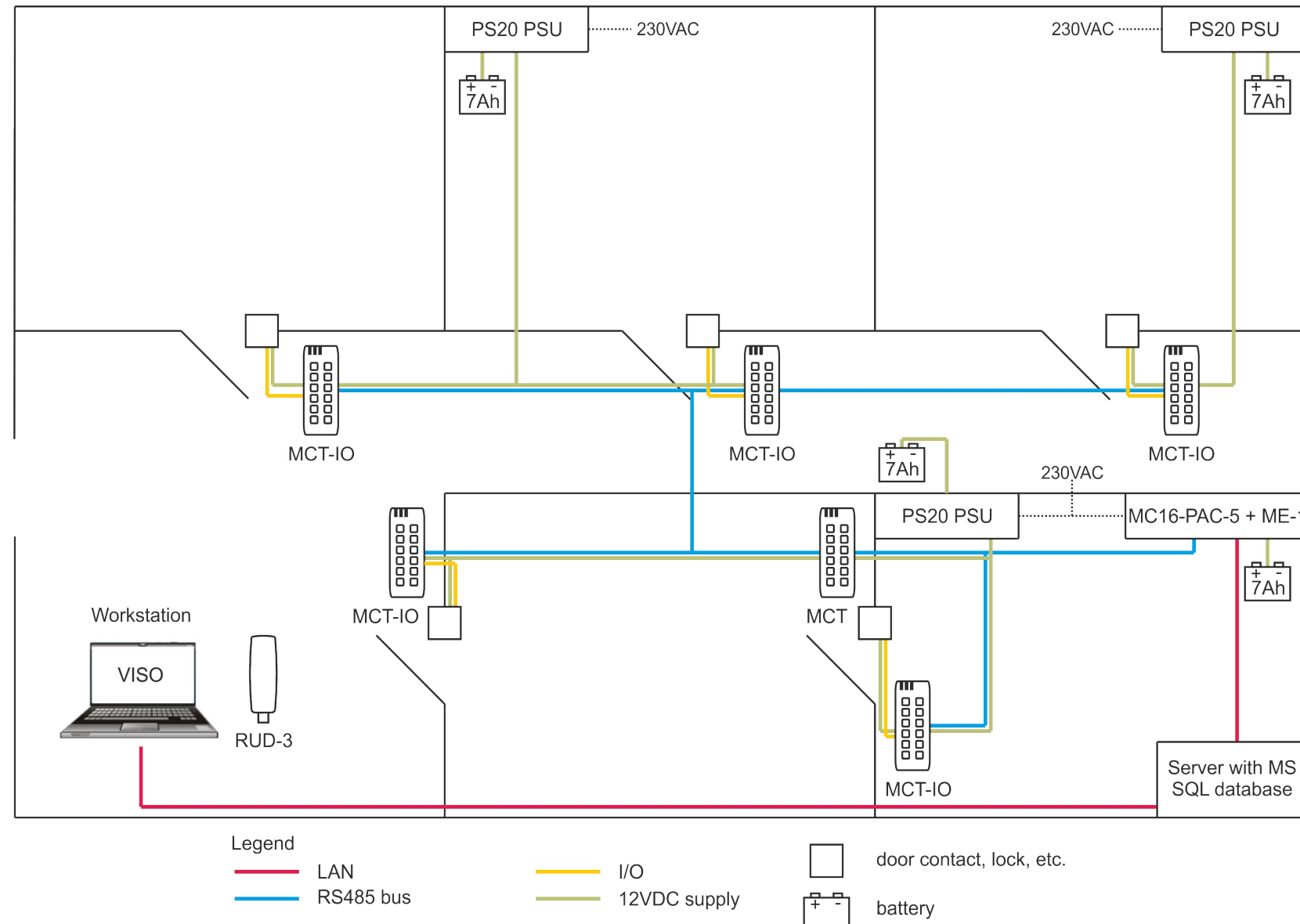
- Easy designing and selection of devices

#### Limitations:

- Lower security due to the location of door lock relays near doors



## Scenario II



### Selection Rules:

- The number and type of access controllers (1-16 doors) depend on the total number of doors
- The number of MCT-IO terminals the same as the number of doors
- The number of MCT readers the same as the number of read-in/out doors
- U/UTP cat. 5 cabling for communication with controller (Ethernet) and between controller and readers (RS485)
- Single PS20 power supply per two doors or installation of PDS4D distributors and PSxD power supplies
- ME-14-24V or other metal enclosures for MC16 controllers

# RACS 5

Enterprise-class Scalable  
Access Control, Security  
and Automation System

# Selection of Devices and Designing

## Scenario III – MC16 controllers with MCT readers and MCX expanders

The scenario requires adequate selection of MCX expanders.

### Advantages:

- Detailed adaptation to project requirements is possible

### Limitations:

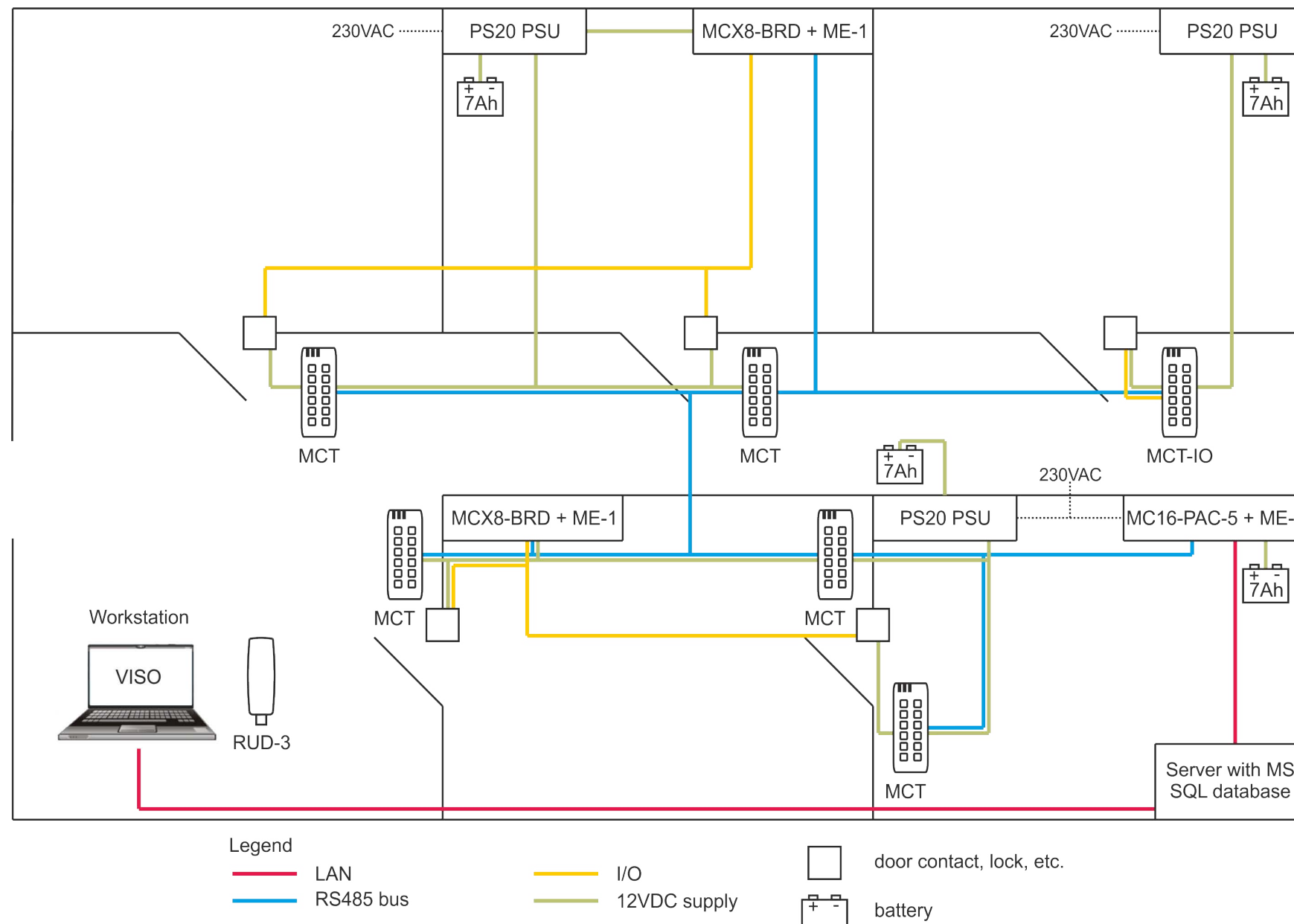
- Good knowledge of RACS 5 system in regard of device selection, designing and installation is required

RACS 5

Enterprise-class Scalable  
Access Control, Security  
and Automation System



## Scenario III



### Selection Rules:

- The number and type of access controllers (1-16 doors) depend on the total number of doors
- The number and type of MCT terminals depend on the number of read-in and read-out doors
- The number of MCX2/MCX8 expanders depends on the number of door locks and other door devices
- U/UTP cat. 5 cabling for communication with controller (Ethernet) and between controller and readers (RS485)

# RACS 5

Enterprise-class Scalable  
Access Control, Security  
and Automation System

## ROGER Support

- Presentation of RACS 5 at customer premises
- Support in selection of hardware and software
- Project registration
- Local RACS 5 trainings in Roger premises
- Individually ordered trainings
- Technical support by phone and internet connection
- Support of Roger representative in RACS 5 system start-up
- Demo and training kits sale and renting



# RACS 5

Enterprise-class Scalable  
Access Control, Security  
and Automation System



ROGER sp. z o.o. sp. k.  
Gościszewo 59  
82-400 Sztum  
Poland

**T.** +48 55 272 0132  
**F.** +48 55 272 0133  
**E.** [roger@roger.pl](mailto:roger@roger.pl)  
[www.roger.pl](http://www.roger.pl)





RACS 5

*Enterprise-class Scalable  
Access Control, Security  
and Automation System*

**Thank you for your attention**