Roger Access Control System

VISO WEB Server Application

Operating manual

Software version: 1.5.2

Document version: Rev. D

1. DESCRIPTION

VISO WEB is a network application which enables RACS 5 system management and monitoring with web browser. In such scenario VISO desktop software is still necessary to configure functional logic of the system in regards of Access Doors, Access Terminals, Inputs, Outputs, Authorizations, Operators, etc. but it is not necessary for everyday management of the system. VISO WEB enables:

- Management of Access User Groups, Access User Persons and Access Credentials

- Event monitoring

- Event log browsing

- Access door monitoring

- Attendance zones monitoring

- Automation nodes monitoring

- Alarm zones monitoring

- Execution of Global Commands

Note: In case of VISO 1.4.2 or newer, the VISO WEB app can be operated with VISO ST and not only VISO EX.

2. CONFIGURATION OF RACS 5 SYSTEM FOR VISO WEB

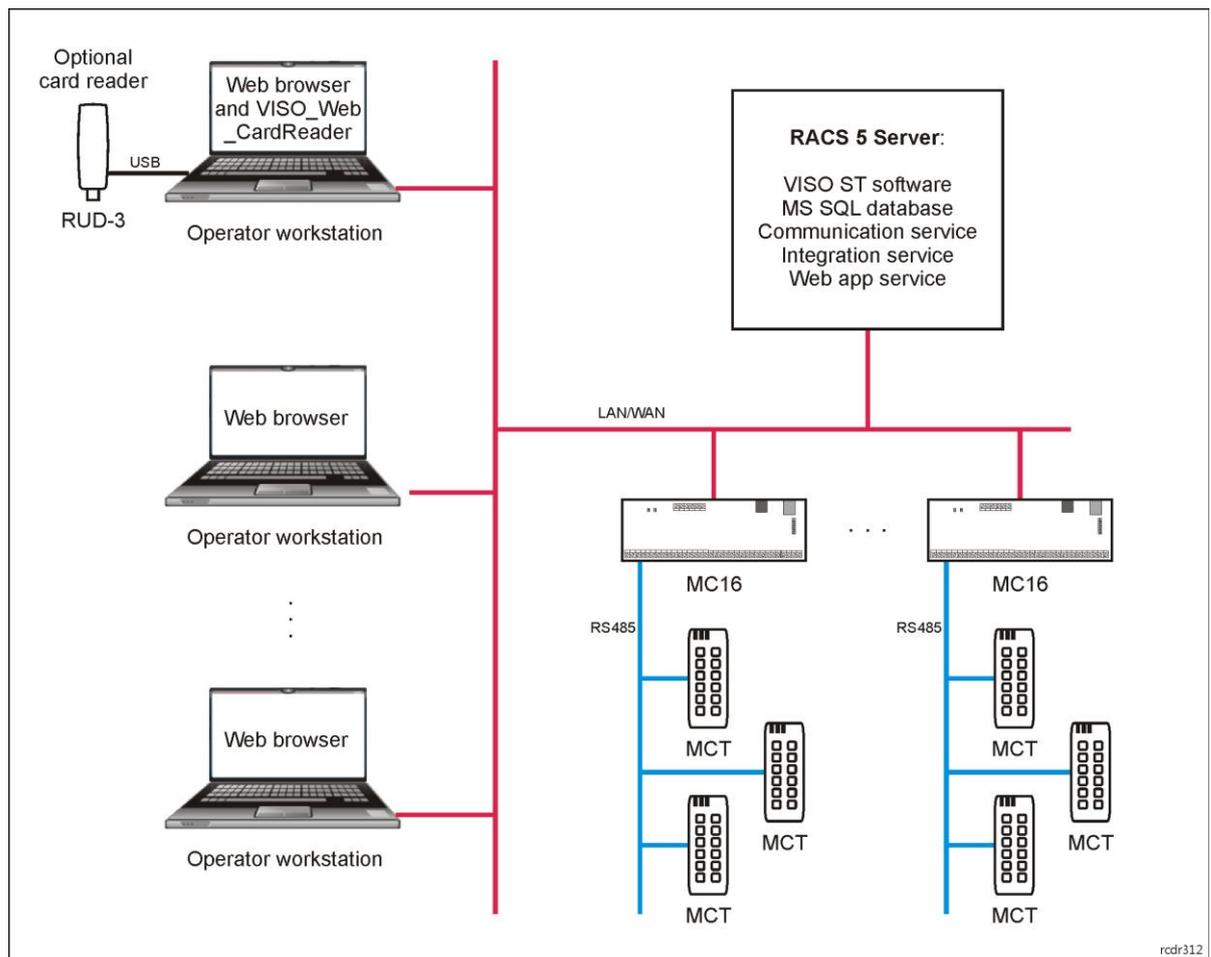The VISO WEB app operates within configured and started RACS 5 system.

Fig. 1 Example of connections for RACS 5 system with VISO WEB

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Configuration of RACS 5 for operation with VISO WEB

- Configure and start RACS 5 system in regard of database, Communication service, access control devices and functional logic i.e. Access Doors, Authorizations, Access User Persons, Access User Groups, etc. These steps are covered in following Application notes which are available at www.roger.pl:

  ➢AN006 RACS Quick Start Guide

  ➢AN017 Operation with MS SQL Server database

- When RogerSVC software is installed then not only Communication service but also Integration service and Web app service must be selected. In the example shown in fig. 1 the administrator workstation with VISO software, server with services and database are installed on the same computer. It is possible to have each of them on individual computers in the network.

- Add VISO operators defining their logins, passwords and Roles to specify their access to particular configuration and monitoring options in VISO software and consequently VISO WEB application. Operators are defined by selecting *Administration* command in the top menu of VISO software. Alternatively all VISO WEB operators can work with default Admin account but in such case all of them have access to all options, logging is not protected with password and there is single common log.

- If necessary start Windows Firewall with Advanced Security on server and define new allowing inbound rule for TCP protocol and Integration service port (by default 8892) and new allowing inbound rule for TCP protocol and Web app service port (by default 8080).

3. VISO WEB SYSTEM STARTING

Method 1 – Installation of VISO WEB with Roger SVC

- Install Internet Information Services (IIS) 10 Express software on server. It can be downloaded from Microsoft webpage:

- https://www.microsoft.com/en-us/download/details.aspx?id=48264

- Start RACS Services Manager from RogerSVC software, click *Web app service* tile, enter IP address of your server and port (e.g. 192.168.10.26 and 8080). These settings shall be used on operator workstations to connect with the RACS 5 system by web browser.

Note: When Web app service is started with RACS Services Manager using Windows Remote Desktop connection then Windows operator rights might be insufficient. In such case you can start the service manually with Windows administrator rights clicking Roger.Racs.WebAppService.exe file in default location C:\Program Files (x86)\Roger\RogerSVC).

Note: When server is restarted then Web app service might start quicker than IIS. In such case the service shall not work properly until it is restarted manually using RACS Services manager. In order to avoid it, start *Computer management* in Windows, select *Services and Applications*, then *Services* and in the properties of *RACSWebAppService* change *Startup type* into *Automatic (Delayed Start)*.

- When Web app service is started then IIS Express is started automatically and its icon should be visible in Windows tray.

Fig. 2 IIS software

- When *Browse Application* field is clicked then web browser with RACS 5 login window is started locally on server.

- In order to log into RACS 5 system from operator workstation, start web browser and enter IP address and port of Web app service. In the presented example it would be 192.168.10.26:8080. When started for the first time it can take up to 1 minute.

- Enter login and password of any VISO operator in the web browser. If operators are not defined in VISO then default Admin login with no password can be applied.

Additional notes:

If IIS Exppress icon is not displayed in Windows tray when Web app service is started on server then it may result from insufficient rights of Windows operator to start IIS Express in specific pool of URLs. In such case start Windows Command Prompt (cmd) with administrator rights and use following command to reserve URL address for Windows user or group of users:

netsh http add urlacl url=http://WebPageAddress:Port/ user=Everyone

e.g. netsh http add urlacl url=http://192.168.10.26:8080/ user=Everyone

For possible reverting of URL reservation use following command:

netsh http delete urlacl url=http://WebPageAddress:Port/

e.g. netsh http delete urlacl url=http://192.168.10.26:8080/

Method 2: Configuration and management of IIS with Windows

Turning Windows features on

IIS web server software is available in Windows operating system. In order to activate the IIS, select *Program and Features* in Windows Control panel, then *Turn Windows features on or off* and in the displayed window in the section *Application Development Features* select options as in fig. 3. It might be necessary to update some of the components using Windows Update service.

In the next step of IIS configuration register ASP.NET Framework using one of following commands:

Windows 32bit:

%windir%\Microsoft.NET\Framework\v4.0.30319\aspnet_regiis.exe -ir

Windows 64bit:

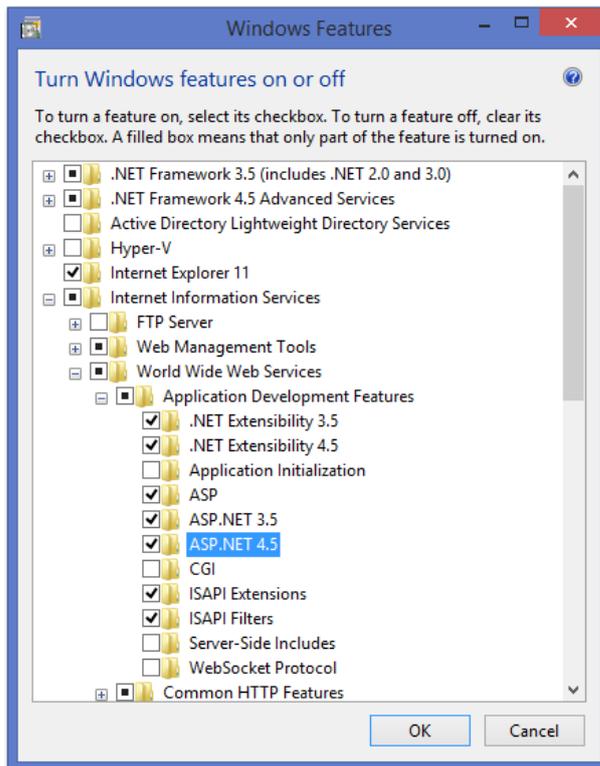%windir%\Microsoft.NET\Framework64\v4.0.30319\aspnet_regiis.exe –ir

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Fig. 3 Minimal list of required features for IIS

Further configuration is possible by starting Computer management, selecting Services and Applications and then Internet Information Services (IIS) Manager.
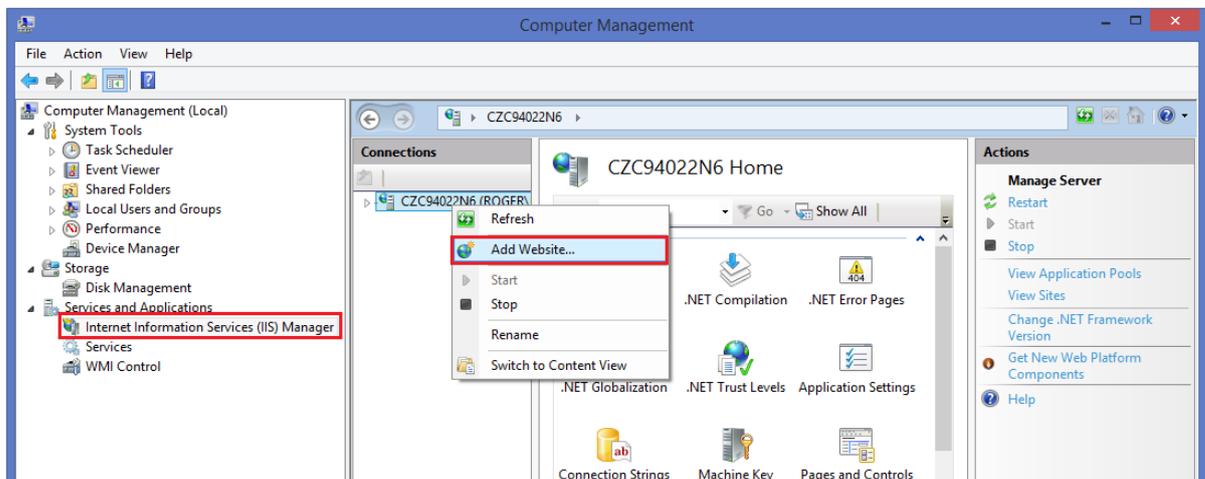

Fig. 4 Internet Information Services (IIS) Manager

Website adding

When website is added then current configuration parameters must be entered. Exemplary settings:

- *Site name: VISO WEB*

- *Physical Path: C:\Program Files (x86)\ROGER\RogerSVC\VISO_WEB*
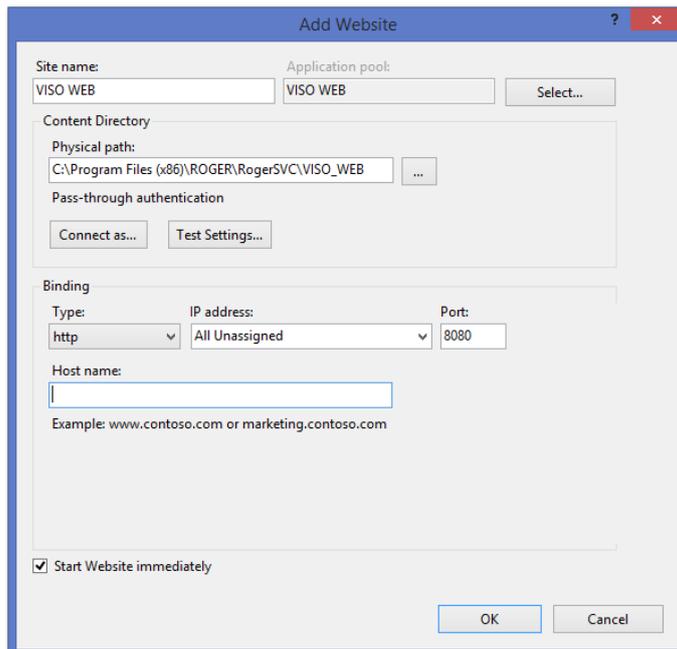
- *Port: 8080*

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Fig. 5 VISO WEB website adding

Configuration of Application Pools

When VISO WEB website is created then the application is created automatically. In order to adapt it to VISO WEB requirements followings settings must be applied:

- *.NET CLR version v.4.0*,

- *Enable 320Bit Application: True*,

- *Start Mode: Always Running*

- *Identity: ApplicationPoolIdentity*.

Remaining settings can be default ones. In case of *Identity* parameter, the *Custom account* can be selected but then it must be ensured that selected operator has sufficient rights to manage IIS and access the location C:\Program Files (x86)\ROGER\RogerSVC\VISO_WEB.
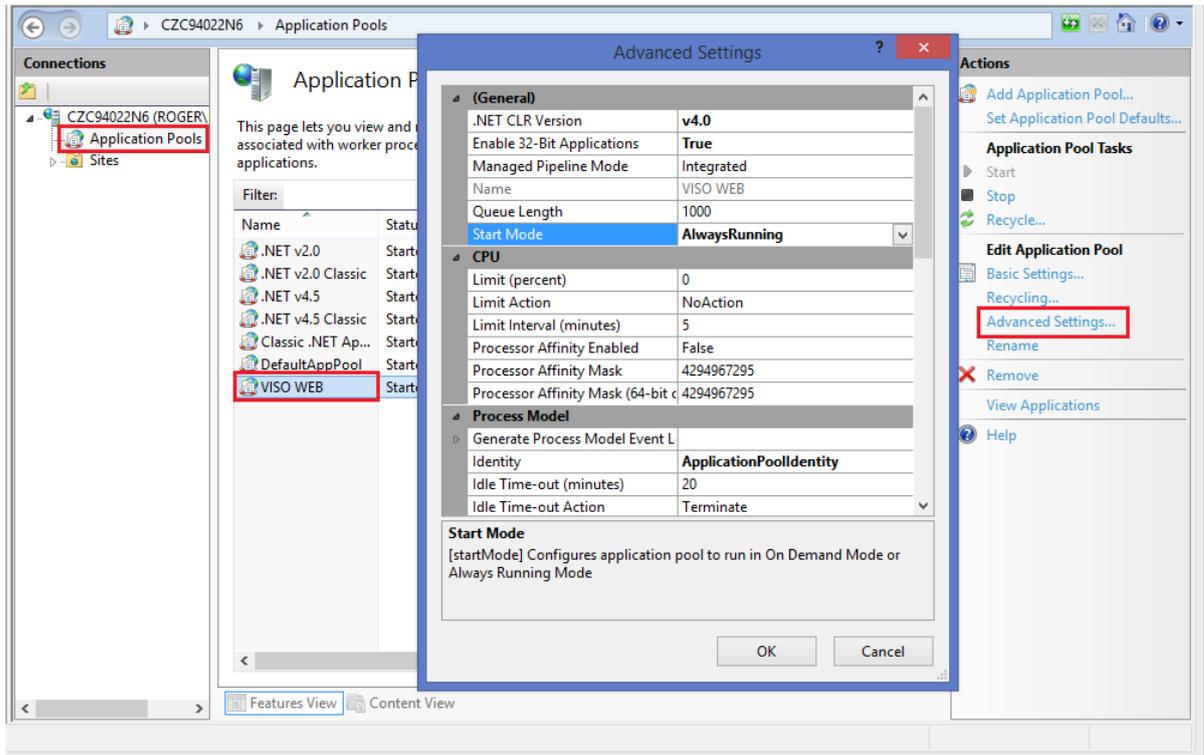
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Fig. 6 Advanced settings for VISO WEB

4. VISO WEB APP STARTING

Regardless of IIS configuration method, VISO WEB app is available for all computers in the server network and it is started with web browser by entering server web address and port (e.g. 192.168.10.26:8080). VISO WEB requires VISO operator login and password. Default Admin operator with empty password can be used if no other operators are defined.
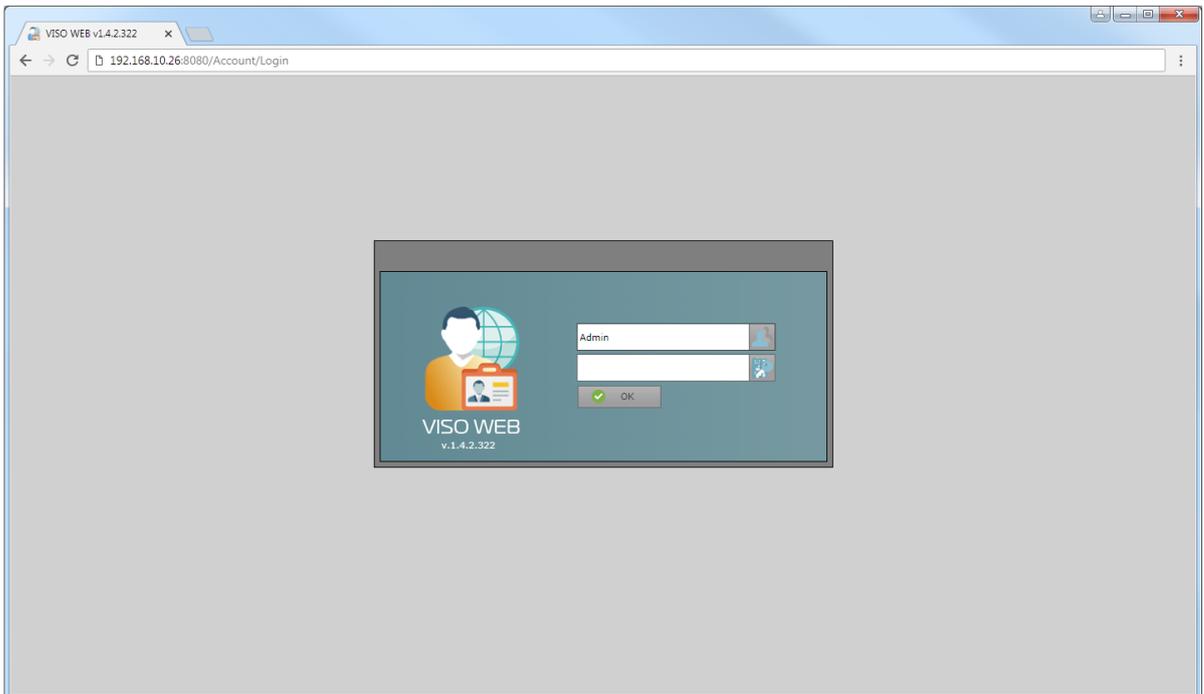
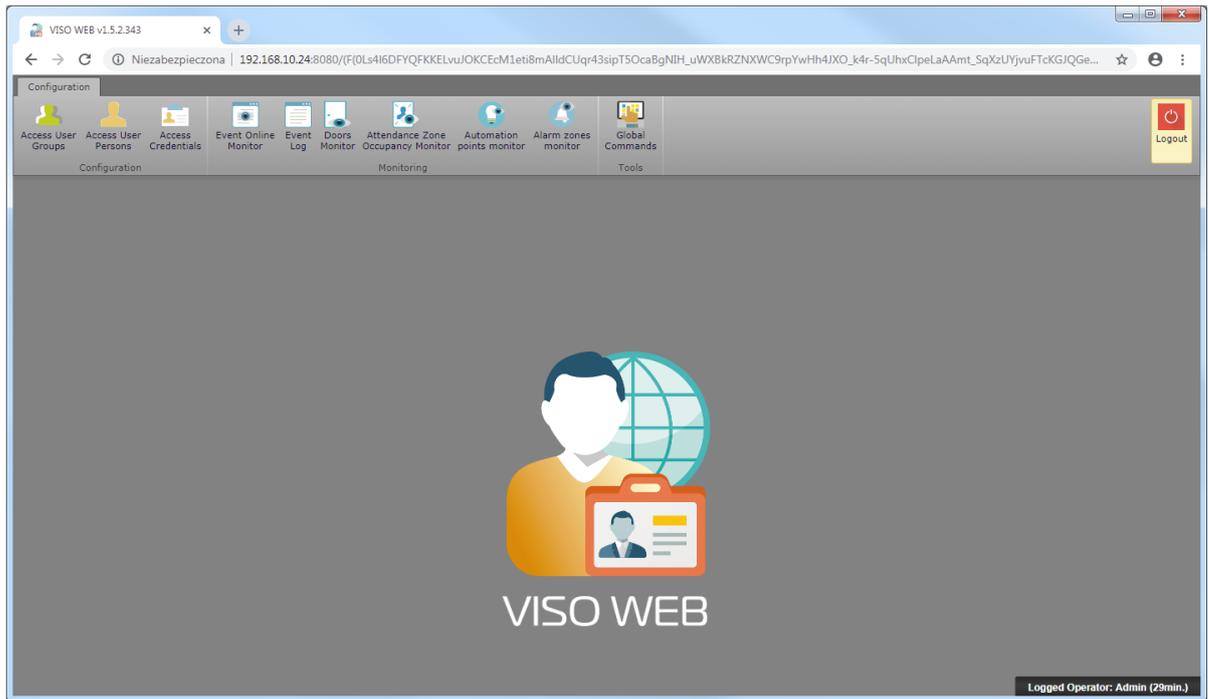

Fig. 7 VISO WEB login window

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Fig. 8 VISO WEB main window

Note: If VISO WEB app is started on the same computer where VISO WEB service is operated then Windows user must have write permissions to following folders:

...\RogerSVC\VISO_WEB\App_Data\UploadTemp
...\RogerSVC\VISO_WEB\Content\Images\Temp
...\RogerSVC\VISO_WEB

User enrolment

Contrary to VISO desktop software, VISO WEB does not enable configuration of Authorizations (access rights) but it allows to use and assign Authorizations from the list created earlier with VISO software.

Method 1:

- In the main window select *Access Credentials* and then *Add*, enter a name and confirm to create Access Credential. The name of the Access Credential could be the name of user who will use it.

- In the bottom select *Authentication Factors* tab and then *Add* to assign card or PIN. In the opened window select type, enter card number or PIN and confirm with *OK* button. If USB readers (e.g. RUD-3) is connected to operator workstation and VISO WEB CardReader program is started in the background then card number can be filled automatically with *Read from reader* button when card is read at the reader. Default location of VISO WEB CardReader is C:\Program Files (x86)\Roger\RogerSVC\VISO_WEB\CardReader.

- In the bottom select *Assigned Rights* and/or *Assigned Rights Groups* and then use *Assign* button to select which Authorizations (access rights) previously defined in VISO shall be assigned to the Access Credentials.

Method 2:

- Define list of Access Credentials with assigned Authentication Factors (cards/PINS). Both can be defined with VISO or VISO WEB.

- In the main window select *Access User Groups* and define such groups with *Add* button. Assign each group with Authorization(s) previously defined in VISO using *Assign* button in the *Assigned Rights* tab.

- In the main window select *Access User Persons*, create a user with *Add* button and assign the user to particular *Group*.

- In the bottom select *Credentials (owns)* and assign Access Credential(s) with previously assigned Authentication Factor(s) i.e. card and/or PINs.

Event Online Monitor

Event Online Monitor in VISO WEB is operated similarly to Event Monitor in VISO software and it displays events which currently occur in the system.

Event Log

Event Log in VISO WEB is operated similarly to Event log in VISO software and it displays all events registered in the system according to configurable filter.

Doors Monitor

Door Monitor in VISO WEB is operated similarly to Access Doors Monitor in VISO software and it enables to monitor door opening status and lock mode (Door Mode) of Access Doors on the list.

It is possible to remotely control selected Access Door using *Remote Command* button. The command offers functions related to Door Mode switching, remote door opening, door alarm cancelling, etc. Remote command can be used only by operator with proper rights. Such rights are defined by assignment of operator to user with Advanced Authorization(s) for functions *[121]..[136]*. Such association of user and operator is done in VISO software in the properties of user in the tab *Remote management* in the field *Operator*. The most simple method to grant all Authorizations to operator is to assign such operator to user with Access Credential with enabled *Master exemption* option. By default the Admin operator is not assigned to any user.

Attendance Zone Occupancy Monitor

Attendance Zone Occupancy Monitor in VISO WEB is operated similarly to the corresponding monitor in VISO software and it enables to monitor which users are currently inside and outside particular Attendance zone which can be defined in VISO software. Additionally in case of this monitor it is necessary to switch on the Attendance Zones monitoring process in VISO software by selection of *Tools* command in the top menu and then *System Processes* icon.

Automation Nodes Monitor

Automation Nodes Monitor in VISO WEB is operated similarly to corresponding monitor in VISO software and it enables to monitor Automation Nodes in the system.

It is possible to remotely control selected Automation Node using *Remote Command* button. The command offers functions related to activation, deactivation and switching of node with various time options. Remote command can be used only by operator with proper rights. Such rights are defined by assignment of operator to user with Advanced Authorization(s) for functions *[145]..[168]*. Such association of user and operator is done in VISO software in the properties of user in the tab *Remote Management* in the field *Operator*. The most simple method to grant all Authorizations to operator is to assign such operator to user with Access Credential with enabled *Master exemption* option. By default the Admin operator is not assigned to any user.

Alarm Zones Monitor

Alarm Zones Monitor is operated similarly to corresponding monitor in VISO software and it enables to monitor Alarm Zones in the system.

It is possible to remotely control selected Alarm Zone using *Remote Command* button. The command offers functions related to Alarm zone arming and disarming. Remote command can be used only by operator with proper rights. Such rights are defined by assignment of operator to user with Advanced Authorization(s) for functions *[104]..[109]* and *[222]...[223]*. Such association of user and operator is done in VISO software in the properties of user in the tab *Remote management* in the field *Operator*. The most simple method to grant all Authorizations to operator is to assign such operator to user with Access Credential with enabled *Master exemption* option. By default the Admin operator is not assigned to any user.

Global Commands

Global commands are defines on the level of VISO software and they can be executed on the level of VISO WEB. Global commands similarly to mentioned above Remote commands require

assignment of operator to user with Authorization(s) for functions included in the Global command and they enable to execute concurrently one or more functions in various locations of the system. For example the Global command can be used to open all doors in the system in case of emergency. The Global command mechanism is provided by the Communication service.

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