

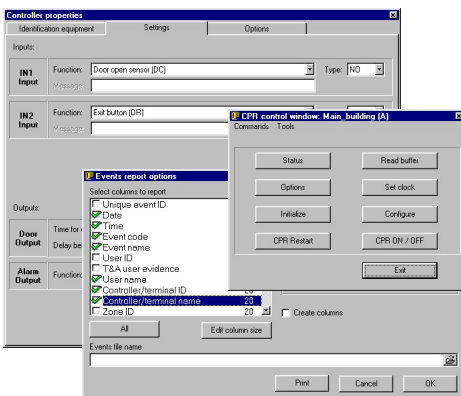
The integrated RACS 2 or RACS 3 software package is used to manage the RACS system. The principles of use of both software packages are presented on the page concerning the system structure.

The package comprises the following modules:

- PR Master,
- CPR Master (only in RACS 2 package),
- RACS Remote Monitor,
- Language selector.

With **PR Master**, the operator can create and modify the RACS system database and the program features are as follows:

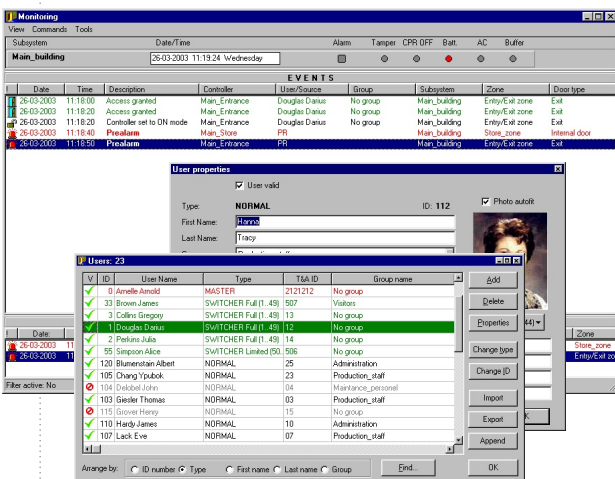
- viewing the event log contained in the system file,
- sending interactive commands to controllers (Open door, Disable access, etc.),
- testing communication bus connection quality,
- generation of reports,
- export of events to text files and T&A software,
- on-line system management without the CPR main control panel (only in RACS 2),
- on-line event monitoring.



All data regarding the system settings and the event log is stored in a disc file (RACS system configuration file) and can be easily transferred to other computers.

The **CPR Master** program is dedicated basically to operate the CPR main control panel and its features are as follows:

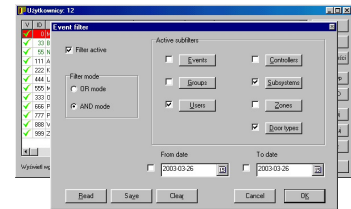
- sending the settings to CPR based on information contained in the configuration file,
- automatic or interactive readout of recorded events from CPR,
- on-line system monitoring on a computer screen,
- system monitoring on remote computers connected to a LAN computer network,
- visualization of CPR alarm conditions,
- viewing the event log contained in the system file,
- sending interactive commands to controllers (Open door, Restart, etc.).



The **RACS Remote Monitor** enables system monitoring on remote computers connected to a LAN computer network.

The **Language Selector** module enables selection of a language version of the RACS package; Polish and English software versions are available. The applied language feature enables also simple creation of users' national language versions by translating text files, which contain messages and names used in the RACS package.

The RACS 2.x and 3.x Software pack comparison



Feature	RACS 2.x	RACS 3.x	Notice
Subsystems available	1	10	RACS 2.x can operate with one ACC system connected to PC COM. RACS 3.x can operate with up to 8 subsystems connected to separate PC COM ports. Every subsystem requires separate CPR panel and communication bus. RACS 3.x utilize "multitasking" method for communication with separate subsystems. This method enables simultaneously communication with every subsystem. For example when system settings are transferred to RACS this occur in every communication channel at the same time, no matter how many subsystem are connected to host PC, system configuration takes the same time as when only one subsystem exists.
Maximum number of controlled door	32	320	Door can be controlled on one or both side.
Operation without CPR control panel	●	○	The RACS 2.x running in online mode can supervise ACC system without CPR.
Software integration	○	●	RACS 2.x administration of ACC system requires at least two separate programs PR Master and CPR Master, system operator must switch between different program during system maintenance. When ACC administrated by RACS 3.x only one program is required (PR Master 3.x)
Events monitoring	●	●	RACS 3.x have few additional mechanisms of monitoring: <ul style="list-style-type: none"> ■ Events filtering ■ user selected events signaling, ■ video identification of users (user photo presentation), ■ system users attendance table
Continuous events reports	○	●	In RACS 3.x events can be continuously transferred from CPR buffers to PC. Received events are appended to two files; RACS system file (*.prc) and user specified *.CSV type of file. Other programs can use CSV file for additional customer defined purposes.
Customer defined format of events report files	○	●	RACS 3.x can generate continuously updated events reports in format which can be specified by customer.
Improved methods of systems settings modifications	○	●	In RACS 2.x any system settings modification requires whole system configuration, it takes about 10..20 second per one controller. The RACS 3.x deliver few quick methods of systems settings modifications, for example modification on one user takes about 2..3 seconds per one controller.
Controllers zones	○	●	In RACS 2.x access rights are declared for every controller separately. In RACS 3.x controllers are divided into controllers zones, access rights are defined for whole zones not a particular controller.
Video identification – budge support	○	●	RACS 3.x enables declaration of user picture, when particular door is monitored system can present the picture of user which actually enter the premises.
User attendance in premises calculation	●	●	ACS 3.x use improved calculation mechanisms.
Customer defined controller types	○	●	RACS 2.x enables declaration of [ENTRY], [EXIT] and [INTERNAL PASSAGE] controller types. The RACS 3.x accept customer defined types, operator can define for example [AUXILARY EXIT], [ON DUTY EXIT] etc. Controllers types are usually used when additional system statistic is required.

● - yes ○ - no

