

# APACS PROFESSIONAL

## Alarm mode features

- Graphical and text based on-line alarm display
- Custom messages
- Hot keys
- Event processing by priority
- On-screen device control
- Digital video recording/recall

## System configuration features

- Input to output linkage
- Time zone controlled reader modes and outputs
- Anti-passback
- Restricted occupancy
- Operator rights
- Custom maps and icons

## Cardholder database features

- Built-in badging
- Up to 255 additional fields per record
- New cards added by blocks

## Report generation features

- User selectable fields for display, filtering, and sorting.
- Report templates
- Print preview

## Time & attendance features

- Accurate work-time calculation
- Schedule templates
- Multi-shift mode

## Reaction features

- Personnel search
- Emergency PIN
- Paging system support
- CCTV interface
- Live video verification
- Audible warnings
- Reaction sequences

## Badging features

- Video capture
- Encodes while printing
- Various Graphic formats
- Supports video camera and major card printers

APACS software is designed for Apollo-based integrated security systems. It provides management of the access control system and performs information exchange and coordination between all subsystems, including alarm monitoring, fire protection, CCTV, HVAC, paging, digital video, lighting, elevator control and badging.

Using standard PCs with the Windows based operating system, it effectively performs in both small single computer systems, and large-scale integrated client-server systems using TCP/IP protocol.

In multi-user applications a powerful computer is used as a dedicated database server to process queries from all other workstations. Users can select between InterBase, Oracle and MS SQL databases.

The APACS software package consists of six modules: Alarm Mode, System Configuration, Cardholder Database, Report Generation, Time & Attendance and External Reports.

This special modular structure provides additional security and convenience by distributing tasks to different operators. The system can be monitored, controlled and configured from any workstation provided the required module is installed and the operator has the appropriate permission.

### Pro, Standard, & Lite

APACS software is available in three packages: Pro, Standard and Lite.

- **APACS Lite** provides simple reliable access control. It features text-based on-line event display, alarm linkage on hardware level, event retrieval and sorting, time and attendance, elevator control and other functions.
- **APACS Standard** includes graphic map, alarm display, live video and badging features.
- **APACS Pro** with the reactions feature is

the most advanced security management software available. APACS Pro can sequence and control CCTV multiplexers, HVAC, lighting, audible alarms, and paging systems. It performs roll call, personnel searches, live video verification and other functions. The software can automatically arm the building as the last person leaves, and turn on lights and air conditioning as the first person swipes his or her card in the morning. Security personnel or other employees can use a special PIN (e.g. 911) to notify guards of emergency situations from the nearest reader.

With its flexible, modular structure, user-friendly design, single, and multi-user capabilities and three different package options, APACS is the best solution for integrated security systems.

### APACS Features

- Windows 2000/XP
- InterBase, Oracle or MS SQL database management system
- Single- or multi-user applications
- 256 workstations
- Intuitive, user-friendly interface
- Unrestricted number of controllers, readers, alarm panels, etc.
- Modular structure
- Multiple card formats
- Online help
- 255 access levels, 6 access levels per-card, individual access levels (precision)
- Dial-up
- Elevator control
- Duress
- Database conversion utilities

## PC requirements

- IBM PC or compatible
- Pentium 4 processor
- 256 Mb RAM or more
- 40 Gb HDD typical (may need a larger disk depending on size of database.)
- CD-ROM
- Windows 2000/XP
- LAN/WAN, TCP/IP
- SVGA video adapter
- "Mouse" pointing device (PS/2 recommended)
- 2 serial ports, 1 parallel port

## Additional accessories

- Sound card
- Video capture board
- Video camera
- Windows compatible printer

## Plastic card printers

- Fargo Electronics
- Ultra Electronics
- Javelin
- ColorX Corporation

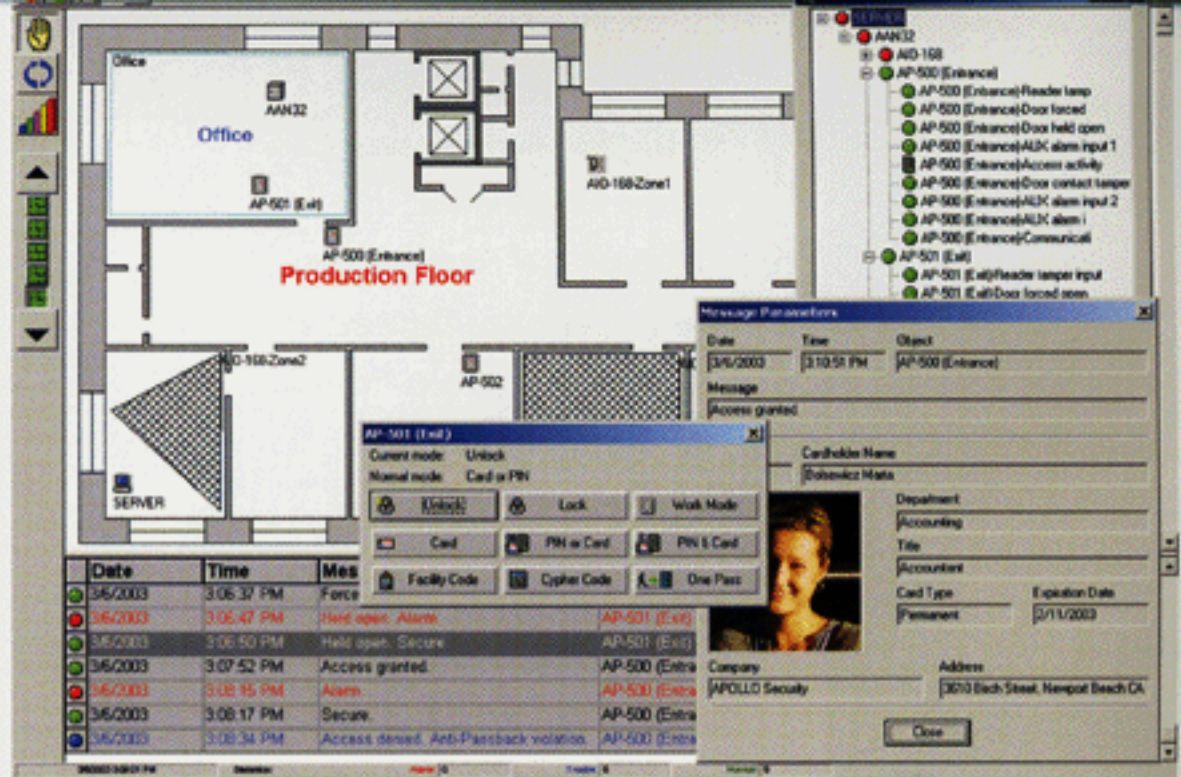
## APACS Feature Guide

	APACS Lt (Lite)	APACS St (Standard)	APACS Pro (Professional)
<b>System Configuration</b>			
System Tree Representation	•	•	•
Elevator access levels	•	•	•
Configuration of hardware logic	•	•	•
<b>Cardholder Configuration</b>			
User Selectable Display Columns	•	•	•
Information Filtering	•	•	•
Up to 255 user defined fields	•	•	•
Badge Design & Printing		•	•
6 Access Levels per Card	•	•	•
Precision Access Levels	•	•	•
Image Capture & Storage	•	•	•
Same card be reissued to different cardholders	•	•	•
Multiple Cards Per Cardholder	•	•	•
<b>Alarm Mode</b>			
Text Based Alarm Display	•	•	•
Graphic Display of Alarms		•	•
Object State Display		•	•
Hardware Status Display	•	•	•
On Screen Object Control (reader, alarm zones or group)		•	•
Cardholder Location	•	•	•
Live Video Display		•	•
Digital Video Storage/Recall			•
Operator or auto acknowledgement of events		•	•
Guard Tour			•
<b>Reports Generation</b>			
Events and Cardholder Filtering for Display	•	•	•
User Selectable Display Columns	•	•	•
Operator History	•	•	•
Sorting	•	•	•
Print Preview	•	•	•
<b>Other Features</b>			
Execute Reactions Based on Reader Commands, Event Type, Time/Day of the Week, System Hardware, Cardholder			•
Display Menu Options for Operator Intervention During Reactions			•
On-line Help	•	•	•
Time & Attendance	•	•	•
Play Wave Sounds			•
Operator/Auto Acknowledgement of Events		•	•
CCTV Interface via Com Port			•
Execute External Programs - *.bat, *.exe, *.com			•
Elevator Control with Feedback	•	•	•

a guard's computer, can display system events on graphic maps or in a text string mode (or both). Messages are color-coded to indicate type of events. Screen icons representing field devices change to show alarm status. For multi-storied buildings or territory too large for one map, maps are shown sequentially by event priority or by operator selection.

The operator can control system devices (readers, cameras, etc), or arm/disarm zones with a simple click on icons or hot keys. A touch screen is also supported. In addition to manual control, any event can automatically trigger an action, e.g. software sends important event messages to pagers, ensuring immediate response by security personnel. It can activate audible alarm warnings or bring up live video images to the PC screen.

The alarm module also records all events and operator actions in the database. **Digital video is supported.**

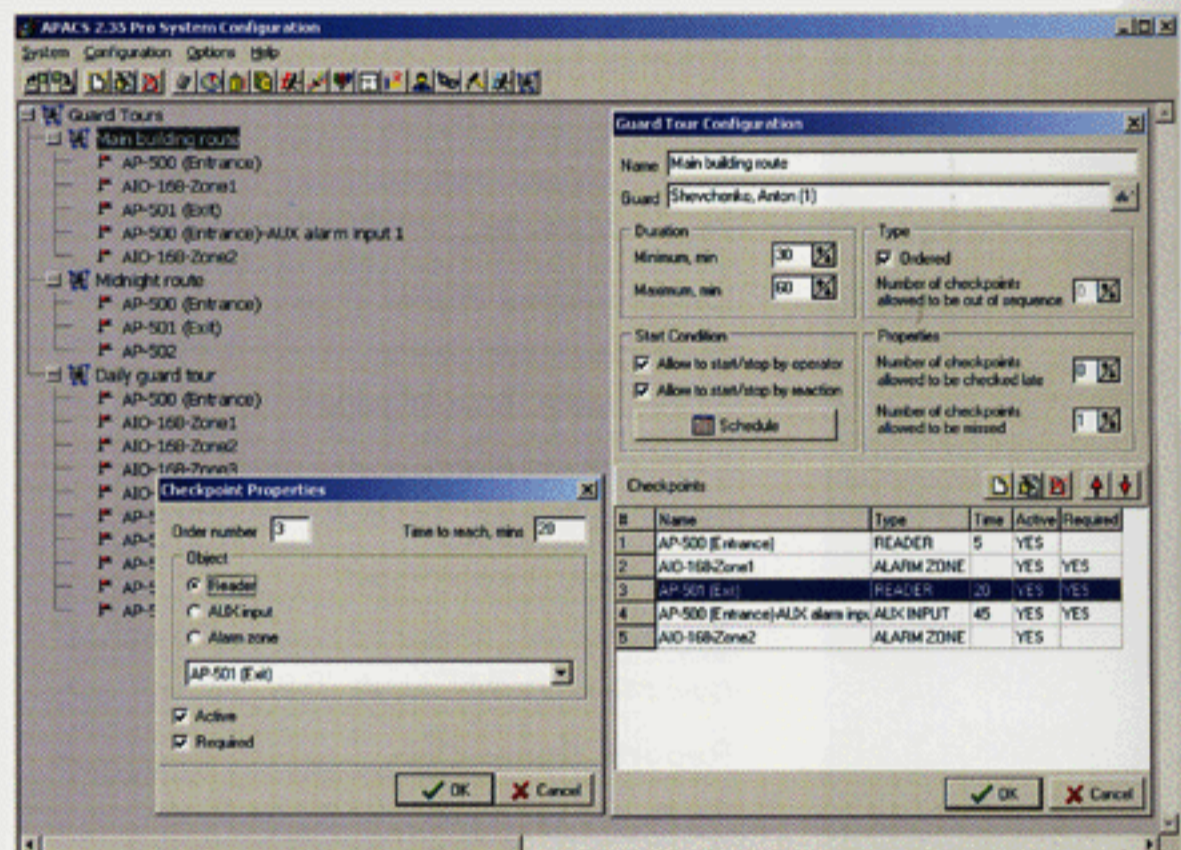


## System Configuration

Using this administrative tool, system configuration is edited — adding and configuring hardware components (workstations, control and alarm panels, readers) defining access levels, time zones, and maps.

Most graphics software packages will create maps for alarm display. All map objects have individual names and icons so guards can easily identify alarm type and location. The operator level function is helpful to organizations with multiple departments. The administrator selects the devices operators can control or monitor, the reports they see, and the cardholder groups they manage.

System information is laid out in the clear hierarchical tree. Configuration is done by multiple choice when possible. To eliminate possible errors, the software verifies entered data for compatibility. Quick reference on-line help is provided for every field, button or selection.

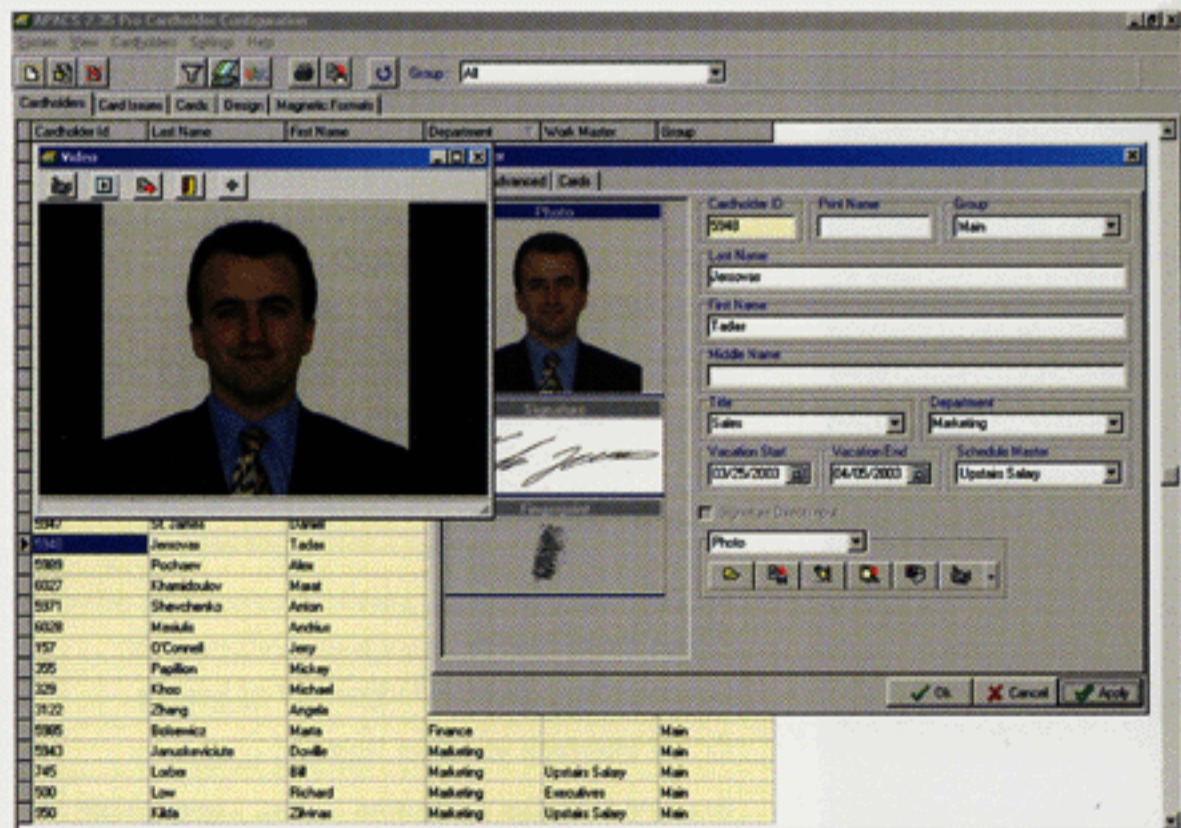


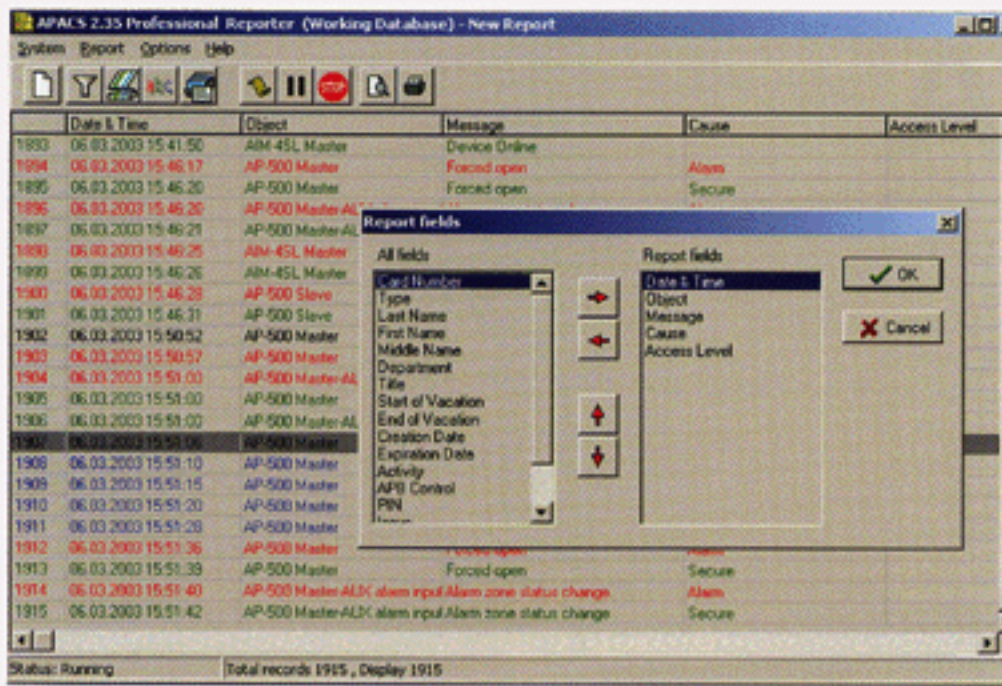
## Cardholder Database

The cardholder module enables operator to:

- Enter cardholder data in standard fields: name, title, department, access level
- Use up to 255 additional fields tailored to company's specific needs
- Capture photo, design, and print badges
- Generate cardholder reports filtered by any database fields

Cardholders can be assigned one or multiple access levels. The database can be segmented so that only operators assigned a specific cardholder group can view and modify records within the group.

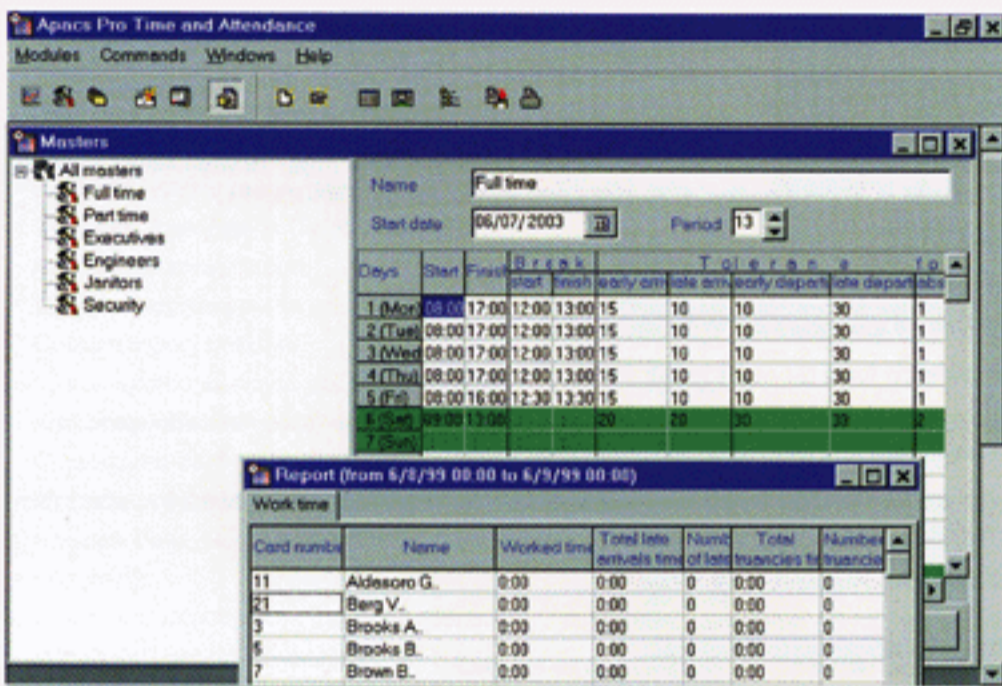




## Report Generation

Security system records four main event types: access, alarm, communication, and operator actions. The Report Generation module can provide custom event reports. The software can sort and filter a report by any database field (event type, date, system device, card type, or cardholder). The number of report fields, as well as the order of their appearance is configurable. For the convenience, report parameters can be saved as a template for future use. Reports can be previewed prior to printing or exported as text files.

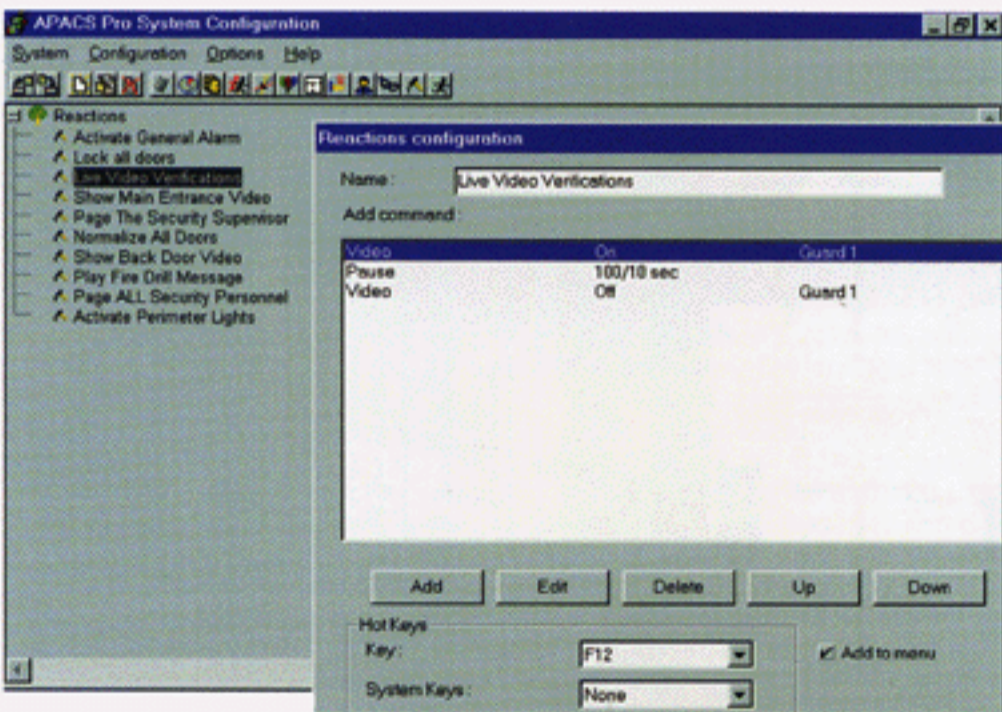
External Reports module includes Mustering, Cardholders Trace, Readers Trace, Alarm Zones Trace, Cardholder by Readers, Readers by Cardholders, Access Level by Reader, Access Level by Cardholder, Elevator Access Level by Floor, Hardware Configuration, Time Zones Configuration, Operator History and Guard Tours reports.



## Time & Attendance

The same readers used for access control can serve as time and attendance readers. Employee work-time is automatically calculated when a card is presented at entry and exit points — employees don't clock in or sign in. Usually the time and attendance module is installed in an Accounting Department PC and used to generate work time reports. The feature is useful for employee supervision, as the software records absences, overtime, early departure, or tardiness. It can give different rights to every operator, so they can see only certain cardholder groups.

Each employee's work schedule is stored in the database. Templates of various schedules can be saved and used to create timetables for new employees.



## Reactions

Automatic reactions to specific events can be set with this software. Any event type, time zone, card, or PIN can trigger a reaction. Possible reactions can be CCTV control by signals from readers or alarm inputs, HVAC and lightning control by time zones, audible alarms to operator, transmission of alarm messages to pagers, roll call, execution of external programs or activation of external systems.

The reactions can be unconditional - immediate response to specified event, or conditional - an operator will be prompted from a list of possible reactions. Should the operator not select, a default reaction is performed.

The reaction software eases operator workload and increases security by ensuring that important events will be noted.



## Photo Badging

The cardholder module has a built-in badging feature. Simple and user-friendly, an inexperienced operator can quickly design and print access cards. The operator need only place a photo and selected fields from the database (name, department), static text (e.g. company address), import graphic files (background, company logo), and the card is ready for printing. The design can be saved as a template for future users.

A cardholder photo can be captured with a video camera or imported from a file. The software supports major printers. Detailed information sheet is available.

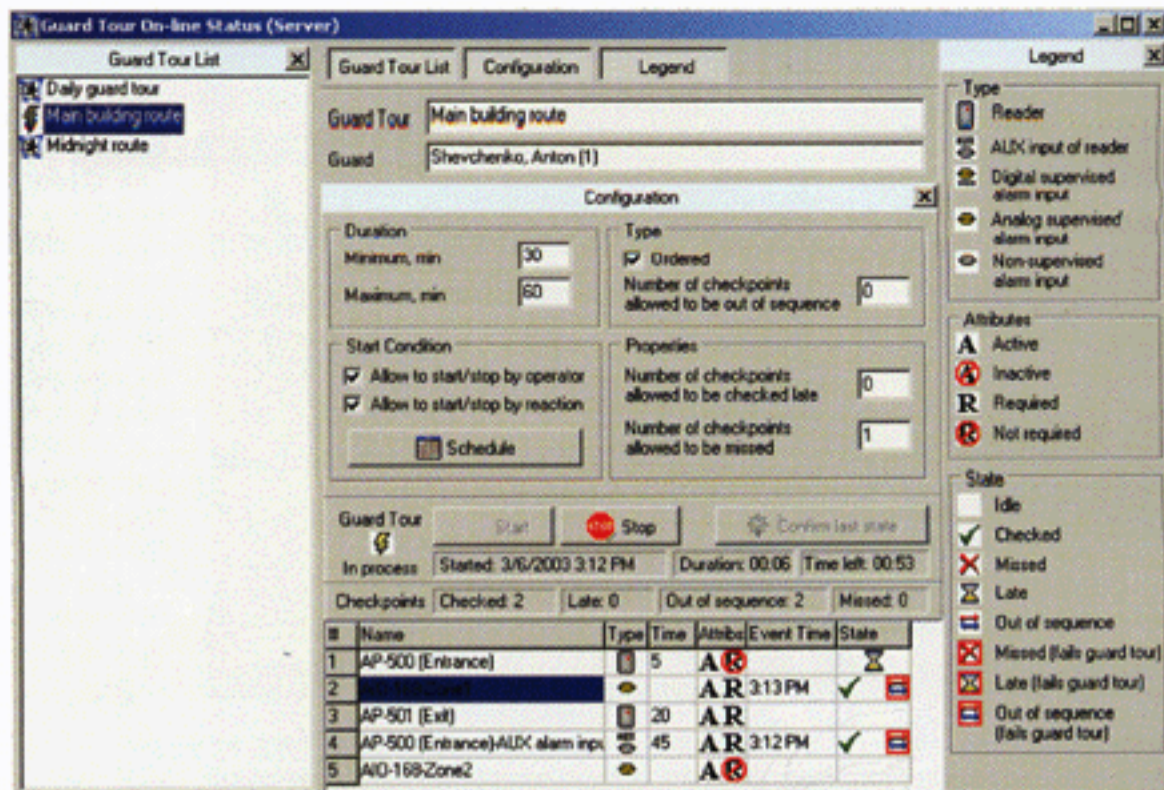
## APACS Guard Tour

Apollo introduces **APACS Guard Tour (GT)**, a new add-on module to the APACS 2.35 Pro. APACS Guard Tour is a dependable and accurate data collecting solution. It enables the the real-time tracking of the guard's movements and provides professional reports as the evidence of the successful completion of the guard's work.

Many GT systems use hand-held devices with built-in memory, which must be connected to a PC upon completion of a tour. In order to collect real-time data with the help of APACS GT, it is possible to use the card readers and the alarm inputs of Access and Alarm System. Consequently, the operator at the PC gets immediately notified if the guard has not arrived to a scheduled checkpoint on time. Such an arrangement increases the security of the system and the safety for the guards, as well as provides the chief security officer with valuable reports as a confirmation that the GTs are conducted correctly.

### Requirements

**APACS Guard Tour works only with APACS 2.35 Pro.**



### Guard Tour (GT) features

- Any reader, auxiliary reader input or alarm input in the security system may be used as a GT point. Each GT may consist of a combination of readers and inputs as GT checkpoints.
- The maximum number of GTs per system is 64.
- The maximum number of checkpoints per GT is 64.
- The checkpoints of several separate GTs can overlap.
- The maximum duration for a GT is 24 hours (1440 minutes).
- GT may be started and stopped by an Operator (manually), Time Zone (automatically based on time) or Reaction (triggered by an even of the security system).
- User defined GT allows the user to set the minimum and the maximum period of time in which the tour must be completed.
- Weekly GT Start schedule is available.
- Checkpoint sequence can be random or ordered.
- Each checkpoint can be allocated the maximum time to reach.
- A checkpoint can be marked as "required". The GT will be incomplete if the required checkpoint has been omitted.

## Integrated digital video

Apollo security systems solutions now are available with integrated digital video. All digital video operations - configuration, monitoring, storing and reporting- are controlled by APACS software.

### Configuration module features:

- Add and configure DVR unit & attached devices
- Place the DVR unit & attached devices on graphical maps.
- Assign permissions to configure & control DVR unit with attached devices.
- Configure the number of seconds for pre-alarm video storage.
- Configure the number of seconds for post-alarm video storage.
- Automatic Archive /Deletion by time

### Reporter module features:

- All recorded video clips may be viewed by selecting the associated event in the reporter.
- High priority video clips can be selected for permanent retention.
- Recorded video clips can be transferred for permanent backup.



### Guard module features:

- View live and recorded video.
- Up to 16 cameras can be multiplexed on one screen.
- Up to 32 cameras per server are supported
- On screen Pan, Tilt and Zoom camera control.
- Recorded video clips are linked with alarm events for ease of recall. The video clip can be viewed by clicking on the alarm message.
- Any system device including card readers, alarm panels, video motion or time can automatically initiate video recording.
- Supports Video Motion Detection (VMD)
- Video Motion Detection supports multiple zones.
- Supports multiple Pan, Tilt and Zoom presets for each camera.