Supervisory and Control System
Unique Management Software for:

- Video surveillance
- Intrusion Detection Systems
- Fire Detection Systems
- Access Control
- Video recording and video analysis
- Technological controls (temperature, humidity, etc.)
APPLICATION OVERVIEW

• Modular and scalable
  From small house to airport or border.
• Open
  Full integration with current and new devices.
• Connectivity
  LAN, Internet, PSTN and 3G.
• Multi-users and privacy
  Multilanguage, encryption.
APPLICATION OVERVIEW

• Site configuration

• Supervision
  Maps, icons, trees, tables, live pictures.

• Messages
  Alarms, faults.

• Historical
  Event memory, data, pictures and videos recorded.

• Control
  Enable/disable zones, alarm sensors out of service, MACRO.
• **Client (CL)**
  User Interface: it allows to configure and control one or more plants. It has a map viewer for plant supervisory and a player of 36 viewers for live, recording and play.

• **Player (PL)**
  It is a module that allows to view a large number of images on a monitor.

• **DataLogger (DL)**
  It allows the system to manage the different hardware types.

• **Video Store (VS)**
  Built-in in the Data Logger, it is used for the storage of video streams coming from cameras.

• **Command Server/Database (CS/DB)**
  It represents the plant. It receives data and sends commands to one or more Data Loggers. It authenticates and serves the Clients. It executes automatic reactions and scheduled actions.
CONTROL ROOM

VideoWall (configurable)

LAN 100 Mbps (1 Gbps)

Workstation 1

Workstation 2
ENTRY LEVEL SOLUTION

The number of IP Cameras for each DL depends on video quality, format and frame rate settings.
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Cameras

- GPS Standard IP cameras
- Samsung analogical cameras (linked to SCS through GPS Standard DVRS4 or Samsung SHR units)
- Samsung IP cameras
- HIK Vision IP cameras
- ITX IP cameras
- IP Cameras conforming to Onvif standard

Intrusion detection

- GPS Standard unit CEN2100
- GPS Standard unit Defender
Access control
- Microntel Access Control system
- GPS Standard Access Control system

Fire detection
- Notifier AM6000 Panel
- Inim Eletronics SmartLoop Panel

Technological devices
- Generic Modbus TCP/IP devices
- MOXA Modbus devices
- Marsilii shutters
Access Rights Assignment

For each operating mode
- Monitoring
- Insert
- Delete
- Modify
- Command

Validation
- Login
- Password

Archive (historical)
- Events
• Background (usable files: .jpg, .bmp, .gif)

• Device icons (sensors)
  The shape and the color of the icon represent the status of the object (armed, alarm, fault, unconnected)

• Navigation icons (levels number unlimited)

• Immediate description of the object pointed by the mouse

• Command activation (right mouse click when pointing on the icon of the selected object)

• Area Arm/Disarm

• Sensor exclusion

• Output activation

• Interaction with CCTV system
An Icon editor, built-in the system, allows to:
- associate to each object type (sensors, inputs, outputs) the graphic files (.ico, .jpg) that represent it (others icons can be added).
- define all different object status (stand-by, alarm, inserted, faulty).

A graphic map editor built-in the system, allows to:
- build system trees in order to insert all required maps.
- import different backgrounds for each map (.jpg, .bmp, .gif).
- select a specific icon for each object (sensors, areas, exit, cameras)
- insert icons into a map and define the association between icon and object links.
- accurately locate icons (pixel by pixel).
**Insertion of subsystem:**
- Data Logger
- Control Panel
- Peripherals / Inputs / Outputs
- Fire detection Systems
- Loop/Sensors/Modules
- Access Control

**DVR Set up:**
- Format (D1, CIF, QCIF, SIF, ...)
- 485 Dome Address
- Frame Rate
- Video loss / Masking
- Image quality / Bit Rate
- Motion detection
- Tracking
The logical configuration allows to insert homogeneous / logical group

Example:
- National offices
- Regional offices
- Local
The management software allows the control of:

- Display format
  Full screen / 4 / 6 / 8 / 9 / 36 images
- Drag & drop the video camera directly on the display image
- Programmable alarm scene automatic play
- Cyclic pre/post-alarm playback
- Direct control on wide display screens (Players) connected to the LAN network
- PTZ / preset / scan / iris / focus control
- Image quality direct control
- Recording activation on operator’s command (according to his rights)
- Status display: Live/Rec/Play
- Title displays
Images can be stored on the following media:

- Codec MPEG4 / Server/ Client Hard Disks
- Other PC Hard Disk operating on the system (Player, Data logger)

Features:

- Synchronous play up to 4 video cameras
- Slow motion
- Single video camera Stop / Start recording
- Multi video camera Stop / Start recording
- Time Bar indicating the type of recording Automatic / Alarm / Motion / Command
- Time Bar Zoom
- Image source HD, IP address, File
MAP PICTURE INTEGRATION
• AM6000 unit and its components (sensors, input and output modules) are represented in the centre physical map and can be inserted in graphical maps

• Auto-learning mechanism: acquisition of the list of devices linked to AM6000

• Available actions to the devices: off duty, in service, general acknowledge, general reset, exit reset, alignment, activation, deactivation
The supervision and Control System manages the GPS Standard alarm control units UC4-96, CEN2100 and Defender.

- Alarm control units and components (concentrators, keyboards, input, output, groups) are represented in the physical tree and can be inserted in graphical maps.

- Auto-learning mechanism: automatic acquisition of the list of devices linked to the units.
SCS manages “Solicited” and “Unsolicited” commands from/to access control devices.

Remote users master data defined in SCS:
- users list
- user badge number
- user profile
- time slot
- list of readers enabled
What happens in case of alarm:

- Automatic (if enabled) display of the map with the object that has caused the alarm.
- The associated icon is flashing.
- If enabled an audio file will be executed.
- The new event appears in the event list (respecting the priority list).
- The associated “MACRO” will be executed.
### Event List

- **Complete Event List**
  - All events are archived
  - Different color for events already confirmed
  - Filter/sort to help the event analysis

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### Event Filtering by

- **Object (sensor, peripheral, ...)**
- **Operator / Action**
- **Data/time**
- **Event type (alarm, faulty ...)**
- **To be confirmed / confirmed**
SCS provides a simple and intuitive programming tool to correlate events and actions

Macros activation:
- by the operator
- automatically executed as a consequence of a particular event
- automatically executed as a consequence of a particular event on a particular device

Examples:
- launch of movie recording on one or more camera on an alarm event on any sensor
- launch of live visualization from one or more cameras on an alarm event on a particular sensor
- activation of the anti-intrusion alarm on more areas with a single click made by the operator
- activation of the anti-intrusion alarm on more areas on the badge passage
More than 200 installations among which the most significant are:

- 3 Museums
- 5 Prisons
- 1 Stadium
- 5 Supermarkets
- 14 Photovoltaic fields
- 3 Law Courts
- 6 Hospitals
- 3 Airports
- 15 Refineries or Power stations
- 7 Urban surveillances
- 2 Explosive bunkers
- 15 Industries
Customizable, in accordance with client’s need (size, features, performance and power consumption)

Reliable even in case of lack of power (8hrs) and connections (32,000 transactions).

Simple and intuitive programming logic used to correlate events and actions

Full and quick integration with a potentially unlimited number of current and new devices.

Multi-language
Non-latin languages management

Recording up to 150 Mbps per Datalogger

Shots coming from up to 100 cameras cycled on a single player slice without any wait time

LAN, Internet, PSTN and 3G connectivity