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DOSSIER

SECURITY SYSTEMS 2017



SECURITY SYSTEMS

Experts in the area

SEQUIREMACS, a company within the Group, **approved** by the Department of the Interior (General Office of Law Enforcement and Civil Guard), and the Ministry of Defence (General Management of arms and material), carries out all kinds of technical security installations, including access control to facilities, indoor and outdoor cameras for buildings, enclosures and perimeters, intrusion detection systems, anti-burst systems, centralization of security installations (control centres), where it's necessary for its importance to realize a comprehensive surveillance for a possible remote monitoring.

With the experience on equipment installation, a agile and reliable supplier chain and a structure guided to the service, EMACS Group assures the compliance in time, quality and budget, including all the critical areas of engineering, supply of materials, workforce and paperwork.

The services of **EMACS** Group operate about a motto: "On date, on budget, without surprises".

We're extremely flexible on our way of working, complementing the capabilities of our customers to create a coherent project team. Our technicians and projects managers have a lot of experience on technology deployments and devices of any size, and they are in the habit of respond efficiently to the changes that, inevitably, will occur in every project.

All of this always with the maximum degree of qualities and guarantees, in some cases, even for life.

ACCESS CONTROL SYSTEMS

General Description

Control Access System is one of the indispensable pillars of a security system in general, since it's responsible for allowing or cancelling the passage to a space protected with certain risks. The main function of a Control Access System is the verification, inspection and intervention of the passage or the movement of people, objects or vehicles to an area, previously defined as a control or safety area for the prevention and protection against risks. The technological advances predict a wide growth and evolution of these systems, especially those of biometric reading.

EMACS Group advises its customers to decide the most appropriated security policies of Access Control (AACC) and Presence Control (PPCC), to implement and maintain them. With this, we add control mechanisms for the management of the staff at corporations.

Our group has the capacity to implement any type of AACC technology, either by contact card (microprocessor chip or magnetic stripe), proximity card, fingerprint biometric or the most avant-garde and safety technology of iris recognition.



WHAT ARE THEY MADE OF?

Any Access Control System has four basic elements. Depending on the size and the purpose of the system, can be a lot of additional types of devices. However, the four basic elements are:

- Cards. Any access credential/card has engraved a combination of binary numbers (ones and zeros) that it's used to identify the card owner. HID® make cards that are able to carry this type of binary data, including:

- ▶ Magnetic Stripe Cards.
- ▶ Wiegand Band Cards (with contact).
- ▶ 125 kHz Proximity Cards.
- ▶ 13.56 MHz Smart Proximity Cards.
- ▶ Virtual Credentials for storing on mobile devices.

- Readers (possibly equipped with keyboards). Each type of reader uses its own technology for read the card data. Every reader are able to convert this dates to transmit them to the controller.

- Access Control Panels (controllers). When the controller receives the data from the reader, its internal software o firmware starts the process to decide whether it's admitted or not the access. The controller is the only device in the system in which the binary format of the card data can be decoded. Only the controller (and possibly the server) is aware of the format composition and if the received data make sense.

- ▶ The card itself has not knowledge of the composition of its format, neither it's aware of the access privilege for the card owner. That information only exists on the controller, and, possibly, on the server (if it's connected ON-LINE).

- The operator interface: PC server. All Access Control System have some type of PC server or program for the operators to use them.

WHAT IS MOBILE ACCESS?

For access control, a credential can be considered as a physical device that is presented to the system (the reader) by a user, for the purpose of demonstrating a declared identity. As credential technology evolves increasingly, it is important to distinguish between the physical credential, such as a plastic card with an RFID chip, and the digital credential, which are the identification data loaded on that chip.

This digital credential is the one that provides the proof of identification. The purpose of the physical credential is to carry that digital credential and protect it from being copied or manipulated.

Physical credentials come in ever more different formats and sizes. It's what we call the form factor. The credential is no longer just an identification card. It can be a mobile phone, a remote control, a bracelet or a smartwatch. Likewise, the credential will not always be communicated through RFID. You can communicate with the reader via Bluetooth®, WiFi or some other communication protocol that has not yet been invented.

In EMACS we provide our customers access credentials that can be carried on iOS devices (from iPhone 4S) and Android (from models with version 4.3 with Bluetooth 4, such as the SAMSUNG III, for example).

The experience of using access control Mobile Access is the most aerodynamics ever experienced by the user of this type of systems.



TORNOS Y ELEMENTOS DE CONTROL DE PASO

Tripod tourniquets or half-height turnstile and rotary turnstiles are one of the most effective formulas for a Control Pass. Motorized aisles or security doors guarantee the unique pass of each person.

Combining the technologies available in EMACS for the identification and control of access, such as Mobile Access, together with tourniquets and turnstiles, we allow our customers to have total control for the management of people in an enclosure.

Pass control has become a necessity for many enclosures. The solutions we offer are practical, simple and effective.

Additionally, we have the ability to adapt and customize the machining to the corporate image of our customers.



CARD PRINTERS

Printing and Manufacture of Plastic Cards

We are distributors of the best brands of plastic card printers in the market and SW of personalization and printing. Visit the PRINTERS section and our SW section in our ON-LINE STORE! We work with manufacturers to advise you at all times about the card printer that best suits your needs.

We are specialists in the manufacture and creation of the design of plastic credentials. Our systems allow customize the cards according to the guidelines set by the client, with different finishes and technologies of reading and recording.

Cards of magnetic stripe, contact chip, proximity at 125 KHz, 13.56 MHz or even UHF or other frequency ranges.

Credentials in key chains, adhesive tags, bracelets or traditional cards, both the standard CR-80 format (credit cards) and other less common formats.

Cuando la empresa toma la decisión de migrar al modelo Mobile Access, el plástico que llevamos en la cartera, o colgado del cuello (según las normas de seguridad del edificio)... DESAPARECE.

Do I need a printer when I use virtual cards?

When the company decides to migrate to the Mobile Access model, the plastic we carry in the wallet, or hanging from the neck (according to building safety regulations) ... DISAPPEAR.

This creates a series of side effects that have an impact on cost savings on card printers, print consumables, cords, card holders, etc... It's very important in some organizations that spend money on all these accessories due to loss or deterioration of the plastic cards.

In many environments the model is mixed, the user is allowed to have their own Mobile Access credentials on their phone while being allowed to carry the classic plastic card hanging from the neck, or with a clamp or yo-yo hanging from the pants.

But of course, one day we forget the access card at home ... and anyway, nothing happens. Another day we left the cell phone and... **WE ALL KNOW THAT WE RETURN TO HIM.**





INTRUSION DETECTION SYSTEMS

Intrusion and alarms detection

The combination of devices that assure the previous knowledge of a presence in an enclosure not allowed, and that make possible an appropriate intervention to achieve the frustration of a crime, is what is known as Intrusion Detection System. The evolution of these systems, increasingly improved, with advanced bidirectional centrals, dual and triple technology detectors with microprocessors that confirm the alarm signal before sending it to the central, innovative functions of the Central Alarm Receivers (CAR), connected to the development of communications, have provided the whole process of intelligence, reliability and ease in its installation and management as well as low cost. And is that today users require an intrusion detection system that is, in addition to effective, easy to manipulate, understand and check.

EMACS Group provide to its customers the most advanced possibilities available in the intrusion detection market, carrying out engineering and installation

CCTV SYSTEM

Analog and IP Systems

The technological development of each of the elements of CCTV towards digital technology, as well as its progressive lowering offers a very favorable perspective for the user. In this sense, the latest market data indicate that the demand of the new systems of CCTV is increasing, especially in sectors such as banking, malls, public administration and business centers. This increasing is connected to a bigger knowledge of the potential customer, each time more who is increasingly informed about the minimum performance required by a team. However, a medium or large-scale installation requires a tailor-made project to determine what type of equipment and systems are best suited to the user's needs.

For our part, SEGUREMACS has focused on the dynamics of specialization, confirming this trend the market itself that is discarding those that do not meet basic quality standards.





SAFETY IN HOTELES

We came to stay

The innovative systems that EMACS has been offering throughout their years of life bring us to this point, where we offer solutions for all types of hotels, new construction and rehabilitation. A team of professionals, that offers products and services for a collective and exclusive use to the market of hotel projects. With advice, support and technical assistance throughout the country.

Our security Solutions goes from the identification of the guest at the reception with automatic recognizers of legal documents (DNI, passports, etc ...) to the Mobile Access to the rooms, along with the rest of the hotel areas.

Of course, we also have CCTV solutions, intrusion detection, energy saving, strongbox, and even solutions for parking management.



SYSTEM INTEGRATION

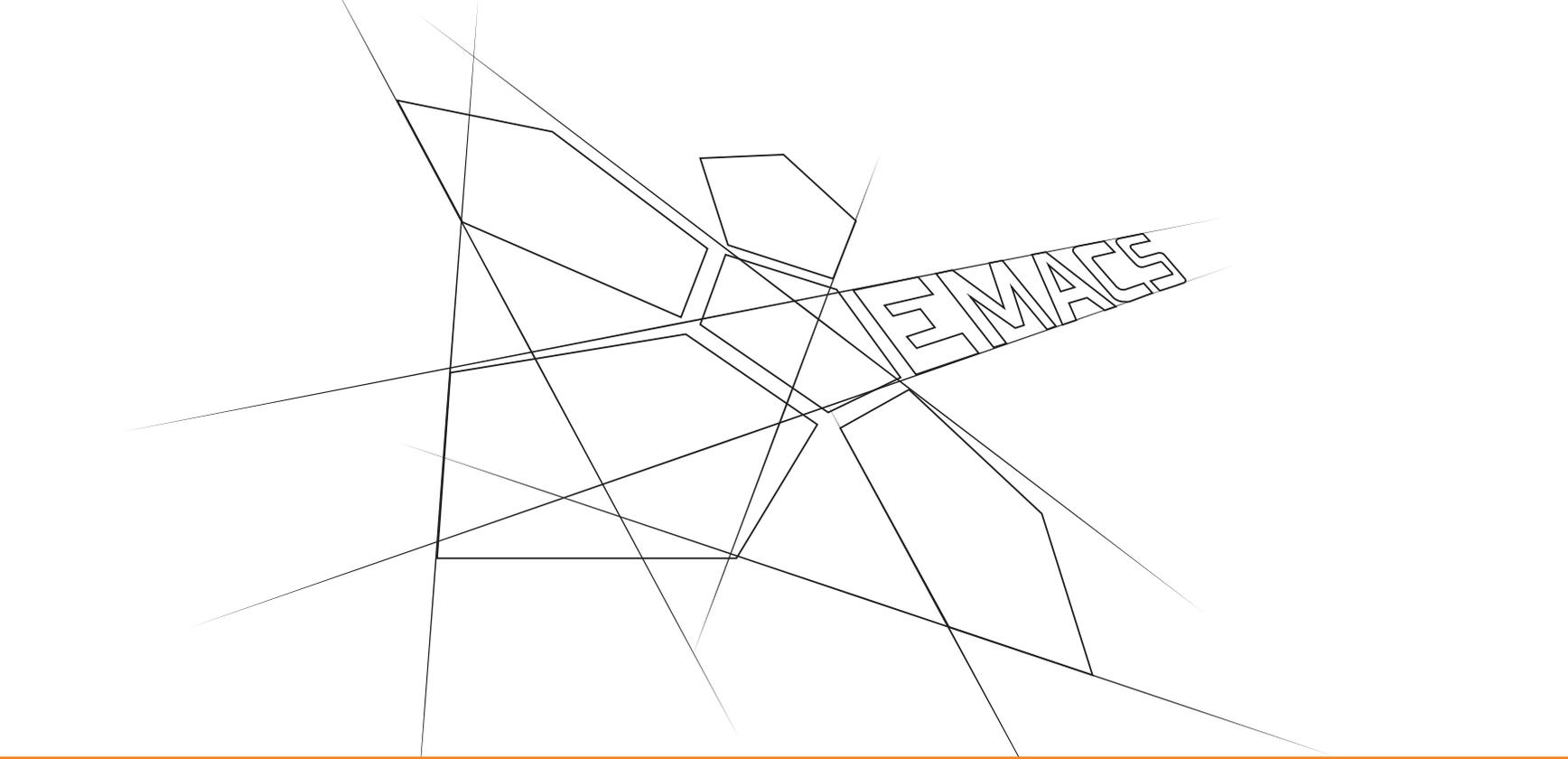
Security Systems Integration

The biggest problem that it's cause in the security control centers is the diversity of devices that are controlled simultaneously, to which a single operator can not provide 100% of its attention, and that multiple monitoring screens need to be monitored, so that you can have an overall view of the facility.

The integration of systems becomes, in a generalized way, the authentic operative brain of automated management that provides the best results of means of control and regulation of the installations in a building or several. EMACS Group occupies the best position for its customers, having the possibility of having the best systems that are required for any ongoing project, according to the needs, and can centralize all services under one platform.

One of our favorite platforms is IS2000™. It allows the systems to work together automatically, so that not only, from the implementation of the same, the operator of the control center does not have to attend so many screens at the same time, but the software system, automatically, crosses information from several subsystems previously separated, allowing more efficient filtering if an event requires special attention or not.

With that, it's not only possible to concentrate the operator's attention on a smaller number of elements on the screen, but their response is more efficient, fast, and localized, since the system itself marks the origin of the event on the configured planimetry, showing images in real time, if it's appropriate, of the place.



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