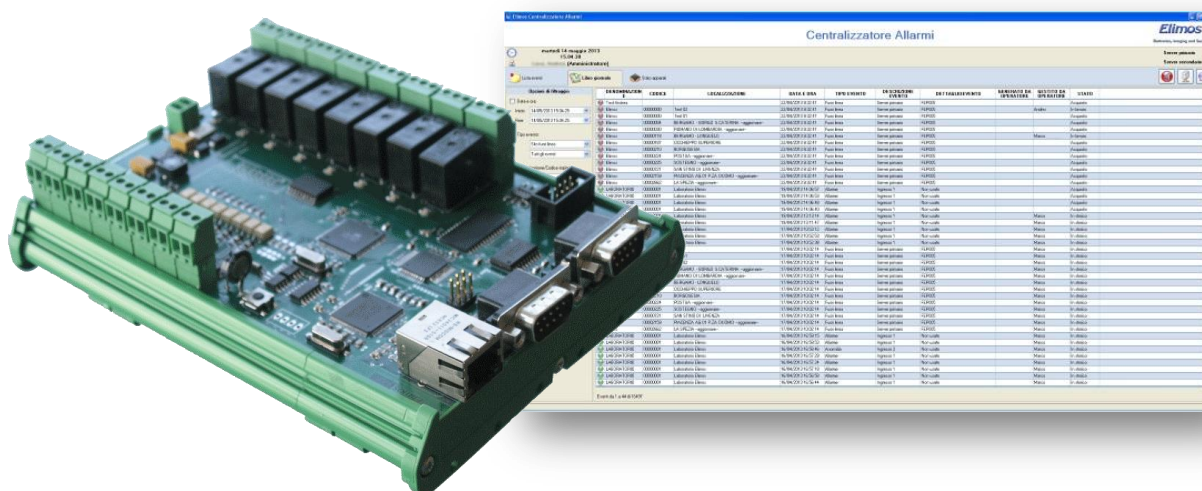




ECCore Centralization

Remote control and command security system network of distributed structures



ECCore Centralization System

The **ECCore Centralization and Remote control System** allows the creation of an effective and safe **monitoring Network**, to **control and security remote management** of existing sensors and devices, installed in the branch offices of a structure distributed on the territory, achieved through the use of intelligent and low cost **EpCore** modules, entirely designed in Elimos laboratories and **customizable** to the needs of the Customer.

All **EpCore** modules are customizable, small in size and **low absorption** so it can be easily installed with minimal impact (i.e. within an existing system).

Flexible and modular, the **ECCore Centralization System** guarantees the highest level of security through **encrypted communication (AES)** between peripheral systems and central server.

To better adapt to different Customer's needs, the System is available in various configurations with increasing functionality:

- **LITE:** 1 to 15 peripheral devices
- **PLUS:** 16 to 50 peripheral devices
- **PROFESSIONAL:** 51 to 200 peripheral devices
- **ENTERPRISE:** more than 200 peripheral devices

Elimos designs and produce directly both the software and the hardware of the product, ensuring the highest level of support and system reliability.

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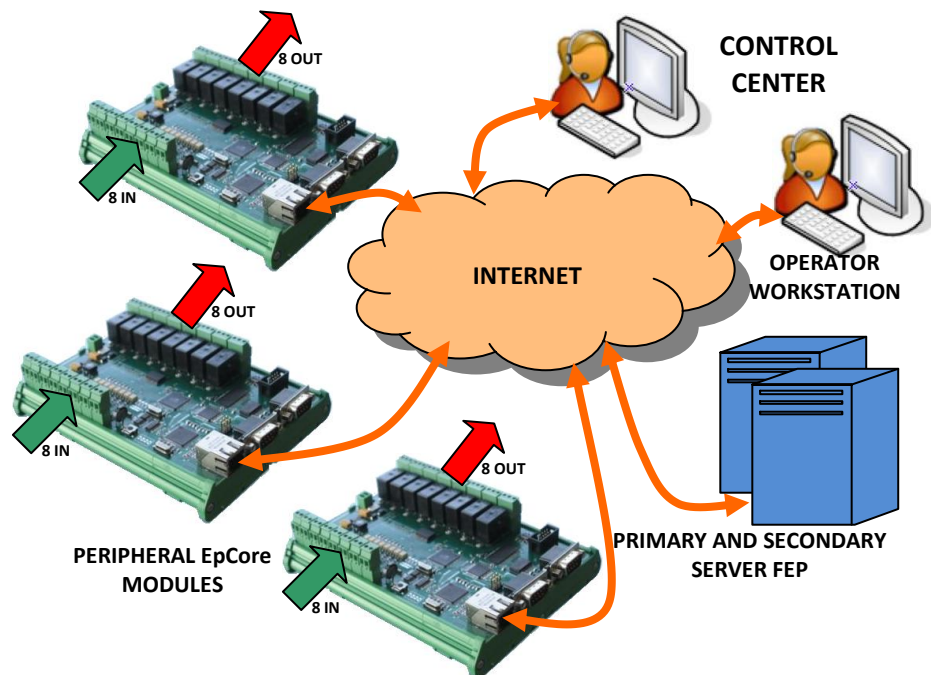
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Functional Features

The **ECCore Centralization** System consists of a SW *suite* with Client-Server architecture and **multiple operator stations** with a modern and easy-to-use graphic interface, able to realize a full set of features that are specific for the remote monitoring developed with the primary goal of realizing a system usable in a simple and intuitive way, but with the highest degree of safety and reliability. The **Servers** at the Control Center can be made in **Single** configuration or with **redundant structure 1+1** with **hot stand-by** to ensure maximum reliability and service continuity of the System in “Mission-Critical” situations. Moreover the possibility to activate from **1 to 10 Operator console** distributed on the network guarantees maximum flexibility and adaptability of the **ECCore System** to the different operational situations.

ECCore System main features are:

- Communications from/to the Control Center **encrypted by AES algorithm** and **authentication of the connection** to the two central Servers (Primary and Secondary) in order to ensure mutually the authenticity of the identity of remote system and Servers: this guarantees maximum security of the System.
- **Continuous** updating of the **inputs and outputs status** to both central Servers (Primary and Secondary) on UDP session (8 digital inputs, 8 digital outputs status, temperature value, statistical data) to ensure fast response times of the System
- **Automatic generation of alarm** both at the Center (event to the Operator) and at the Periphery (through the activation of **local alarm** output) in case of **lost connection** and **rapid return** to normal operating conditions.
- **Remote control** of relay **output** status on command of the Control Center through simple and immediate actions by the Operator.
- Possibility to generate an **automatic** activation of one or more relay outputs against one or more **scheduled events** (i.e. network fault).
- Double **watch-dog** safety reset on EpCore modules in periphery to ensure maximum **service continuity** of the System under all conditions.
- **Storage of the output status** in periphery for the next **immediate restoration** against shutdown / reset / restart by watch-dog.
- Creation and management of a serial **data tunnel** between the operator Workstation to the **local serial ports** of EpCore modules in periphery to interface local equipments through serial ports.
- **Firmware automatic update** of EpCore modules in periphery at Boot or on command from the Control Center, to have always aligned and up-to-date versions without the need for any intervention to be carried out in the Peripheries.
- **Two levels of Operator access** towards the competent periphery of the Group of origin with **three levels of privilege**:
 - 1 **User Privilege**: only status consultation
 - 2 **Operator Privilege**: status consultation, sending commands, activation of serial tunnel sessions
 - 3 **Installer Privilege**: Access to create and edit the configuration database



For further information about the products and the applications please visit www.elimos.it

