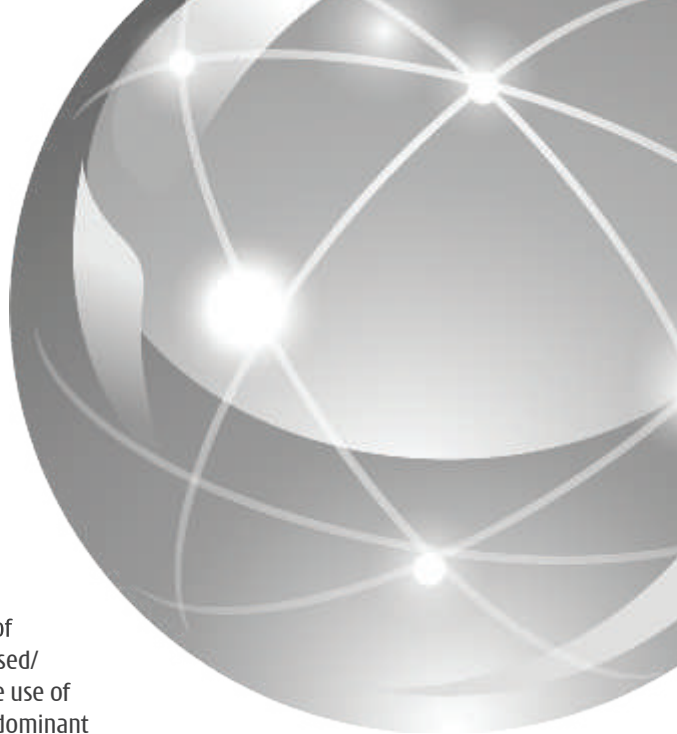# » THE PANORAMA

The needs of the industry in the age of globalisation and delocalisation have become more and more complex. In this context, to network systems, processes and information is a key factor for success in a constantly competitive environment in order to be always and everywhere. Therefore, the possibility to remotely manage a production system creates a keystone having the scope of reducing time and costs, amplifying and enhancing the performance of your business. Our goal is to create a system that uses the most advanced information technologies, to provide the Client with a simple, efficient and safe control solution. Internet uses the speed of phone line available all over the world. In turn, SEVIO uses Internet as an infrastructure creating a private network dedicated to the Client, obtaining cost-effectiveness, diffuseness and isolation at the same time thanks to cryptographic protocols that ensure privacy and safety.

In this scenario, Eurobica Corporate has created a system that was born and evolved thanks to the many years in the field of automation and in the computerised/telecommunication area where the use of remote services has been the predominant theme for years.

THE OBJECTIVES FOR SEVIO

✔ DEDICATE A NETWORK TO THE CLIENT THAT IS PRIVATE, ECONOMIC AND ALWAYS AVAILABLE

✔ RELIEVE THE CLIENT OF THE COMPLEX CONFIGURATIONS AND CONSEQUENT MAINTENANCE

✔ GUARANTEE THE HIGHEST STANDARDS OF SAFETY

✔ OFFER A SYSTEM THAT IS USEFUL AND PROMPT IN ALL THE STAGES OF A PROJECT

In substance, our strong point is the use of the best technology to manage the complexities and the need to update in order to guarantee a simple, effective, powerful and ready to use tool to the Client.
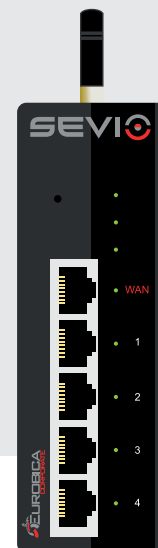
» THE SEVIO SYSTEM

SEVIO is a system that is undoubtedly easy and intuitive, compact and complete that guarantees the maximum standards of safety. It is an important tool useful in all the stages of system management and simplifies installation, start up, maintenance and incident management. It offers an important added value to applications in which humans directly or indirectly exploit all the new computer technologies. Besides, SE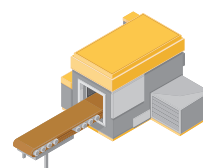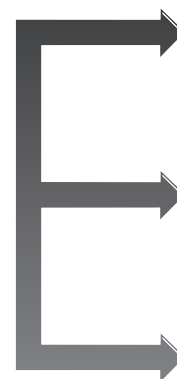VIO provides a network infrastructure that allows creating distributed applications and opens the door to scenarios that overcome the simple remote control that we know nowadays: remote control is just one usage among many.

» WHAT IT DOES

SEVIO allows interconnection between several networks making communication between all connected devices easy and immediate, regardless of their location: a private network safe from prying eyes. Any element of the network can freely communicate, without worrying about the complexity of the infrastructure.

» HOW IT WORKS

SEVIO is installed directly on the system's automation network, acting as a GATEWAY. Remote management only requires an access point to the Internet: the Client's network, a dedicated ADSL or a UMTS connection. The presence of SEVIO does not require changes to the Client's network configuration: it operates like an ordinary device connected to the Internet. Once connected Sevio accesses the private network autonomously and then, after a few moments, the automation network is visible from the remote control points (PC, Tablet, Smartphone) duly authenticated, straightforwardly without any additional software. To change the configuration of the router, just go to "SEVIO Portal", the web application designed to administrate and manage your own devices. Once again, it is not necessary to install any software: an Internet access is enough. SEVIO is installed on plants far from the production places; thus the chance to change the configuration remotely offers a huge advantage.

TO LEARN MORE

- The system does not require the installation of any software, the control points can be PCs, tablets, smartphones of the most various models and with any operating system; only an Internet connection must be provided;
- SEVIO uses standard VPN (Virtual Private Network) protocols, non-proprietary, wide diffused, tested and tried out on a worldwide scale;
- SEVIO is a VPN multipoint solution; therefore each device pertaining to the private network is able to communicate with all devices having IP connectivity in total transparency. In this scenario, the remote control is just one of the possible applications;
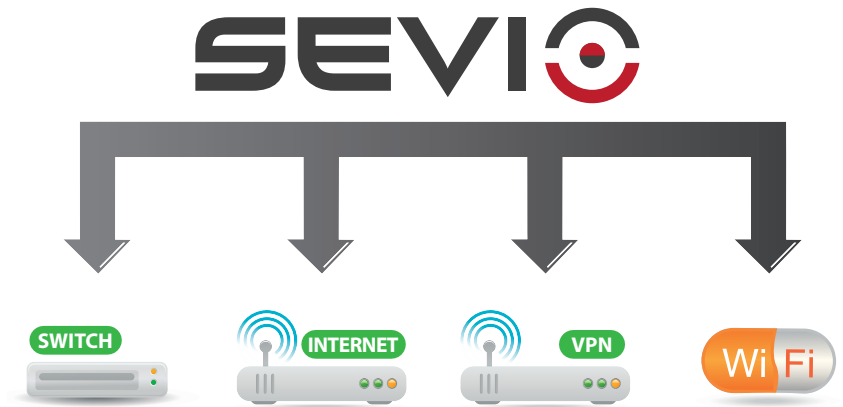- No additional costs. SEVIO is a remote control system made up of an industrial router and a web application used for the initial configuration: it does not need any license or any form of subscription;
- The checkpoints connect to the private network through reserved accounts. SEVIO offers clients the possibility to make simultaneous access with no limits;
- The automation network may consist of a single or multiple devices: each router can manage over 250 simultaneous nodes;
- The hardware we use is a state of the art industrial router, designed for installation in control panels thanks to the DIN rail support, to the power supply range expanded by 8-30 V and to the robust metal case with compact dimensions.

» HOW IT IS MADE

SEVIO is an All-in-One device that guarantees all the main functions for a project:

- VPN router client to remote access;
- Gigabit Industrial Switch that ensures the traffic of a high volume of data;
- Wi-Fi router, essential for the programming of wireless devices;
- Internet connection from the automation network getting immediate access to on-line support and troubleshooting.

SEVIO

SWITCH | INTERNET | VPN | Wi Fi

» WHY USING A REMOTE CONTROL SYSTEM

Direct access
A remote control system allows direct human - machine communication without middle men who could lead to misunderstandings. This system offers direct access to network devices providing your technical office with the chance to examine the system's state just as if it was in the adjacent room. Remote control can be achieved with a video registration function too, all with remote visibility, wherever you are.

Ordinary maintenance
Remote control is important even during the preventive ordinary maintenance steps since it helps having a system constantly maintained in an optimal state. Through the periodical analysis of parameters it is possible to monitor the whole system and promptly intervene when needed. Preventive beforehand replacement of your machine's parts won't be necessary anymore. Your remote control system can warn you about failures in real time.

Data analysis on prototypes
The possibility to analyse the operating data of a prototype through remote control shall allow your research and development unit to obtain important information in order to optimise your production systems.

Cut down production stops
The making of assistance simple and immediate allows you to reduce the risks of production stop, to sustain a greater productivity for the systems and to greatly optimise the kind of assistance to submit.

Efficacious service
In the event of an intervention by skilled technicians time required for all the travels, transfers, analysis and restoring procedures must be planned. If the point of assistance is not close to the plant, the time shall be extended further.
Through a remote control system, any delays shall be reduced to the minimum and the human resources shall be used solely for remote control operations via the Internet. The system is just a click away ANYTIME, ANYWHERE.

Lowering of costs for servicing
With a remote control system it shall be less necessary moving skilled personnel around the world; the processes and assistance through an online management system that does not require on-site operations. This is an added value if you take into account service agreements and the whole new business that can come from it. Reducing timing and transfers, optimising the maintenance performances and implementing the analysis through remote control, may offer new and efficacious service solutions.

Additional services
Remote control offers additional services that go beyond assistance, like data analysis, production trends, system monitoring, etc., therefore it is possible to build solutions to expand your business.

» WHY SEVIO

In addition to the typical advantages of a typical remote control system, SEVIO shows extraordinary characteristics that generate important benefits for the user:

Intuitive
Using SEVIO is extremely easy, immediate and intuitive. The device configuration can be changed remotely. With a simple Internet connection, the system's automation network is in your office.

All in One
SEVIO is a VPN router, an industrial high speed switch, a powerful Wi-Fi router and an handy access point to Internet directly on your plant: all this in one device. Remote management is just one of the many services available.

No software
SEVIO does not require the installation of any software. The control points can access the devices prior to authentication. To change the configuration of the router, just access the web application "SEVIO Portal", through an Internet connection.

Non-invasive
It is not necessary to modify any parameter of the local network or of your firewalls: SEVIO just needs a standard Internet connection. So its structure is non-invasive thanks to the protocols that adapt to the configurations of installation site network.

Flexible
SEVIO is based on a transparent IP connectivity, compatible with all the devices using IP-based protocols. The Client is free to connect any hardware to SEVIO as if it was a common switch.

Wi-Fi
SEVIO gives you the chance to connect devices to the network and to the private network too over Wi-Fi: your systems shall be equipped with an Internet connection, your PCs can communicate with different devices (PLC, HMI, driver, etc.) without any communication interface and any wiring. Even your tablets can be used to perform maintenance operations.

Gigabit
The Ethernet ports on SEVIO are 10/100/1000 BASE-T, for greater efficiency and speed. The self-adaption of cables MDI/MDIX is supported. You won't have to use crossover cables any longer.

Hardware
SEVIO is an industrial router that exploits the best available technologies on the market guaranteeing all the required reliability.

Modular
Our system offers everything you need to carry out remote management, as SEVIO is born from the Client's practical requirements and can be customized on your specific needs and particular requirements.

Transparent costs
Transparency is at the base of the SEVIO philosophy. One time purchase is due, no more periodical fees. This shall allow you to assess the proposed investment with the utmost clarity protecting you from unpleasant additional costs that were not budgeted.

» SAFETY

Communication security and ease of use: the data transmitted over the private network is encrypted and decrypted using widespread and well-proven algorithms.

SEVIO

https://sevio.it