



Discover the most
advanced Internet access
connection of the

 **EKOPLC**

Poweline Solutios
for hotels and large buildings

Discover the most advanced Internet access connection of the market

At the vanguard of technology

The WiFi solution of EkoPLC gives Internet connection mobility and security without cables that translates into comfort for the customer. It is simple to install and allows connectivity in places where networks are difficult to implement.

The architecture of the proposed network consists of having a series of AP distributed throughout the building and/or enclosure that give cover to all the designated rooms. The connections realized pass through a validation system in which the visitors of the hotel must insert a login and password that will be provided in reception (or through other payment systems) access to the network for foreign users that do not have these keys being impossible.

All the AP are wired in star through several controllable switches, joined to each other by means of data or optical fibre wiring (depending on the physical features of each project) and they feed through their own data cable (PoE), reducing the costs and the complexity of the installation. The central switch is connected to the AG that provides the central elements of validation, management, traffic control and aggregation of the network.

ACCESS CONTROL

The system is based on an Access Gateway as the only system for the access control

The functions of an AG device are, among others:

- To authenticate the users by means of the login and passwords supplied to the customers.
- To verify that the user is current or has expired.
- To track the time used by each user.

In addition, some models have an aerial incorporated that can transmit, so they can also be used as alternative access points.

AG allows the supply of an active control of Internet connections by means of a captive portal that receives the access requests, redirecting them to a validation page accessible from any Internet browser, and in which it is necessary to insert a user name and a password (obtainable from the register page) to be able to have access to the requested pages. Independently of the setup of the PC, the user connected to the network will obtain as the home page of their favourite browser the wireless network access portal. The access portal is totally configurable and customisable.

STABILITY, SECURITY AND QUALITY

QUALITY OF SERVICE (QoS)

The capacity of our service model facilitates the dynamic management of the bandwidth. A minimum speed of access is guaranteed but with the possibility of making use of the free bandwidth that is not being used in that moment, and interceding to prevent the abusive use of the bandwidth on the part of the end users. In this way, the simultaneous connection of a bigger number of users is allowed with navigation capacities more appropriate to the new demands of the customers.

UNIVERSALITY

Increase the different types of devices that can make use of the system (PC, Macintosh, PDA, mobile telephones, etc.) as well as the navigation programs supported (Explorer, Safari, Firefox, etc.).

STABILITY

The possibility of interruption of Internet services is reduced by the use of high quality equipment in the defined infrastructure.

MANAGEMENT AND REMOTE CONTROL

Powerful modern tools have been developed that facilitate our maintenance department to obtain more information through monitoring the networks (router, switches, AG and AP) in real time, to generate alarms and to be able to improve proactive resolution of incidences or problems. In addition, the new equipment and network topologies allow remote disconnections and resets of the equipment.

SECURITY

The implemented security features completely avoid any other equipment connected to a wireless network seeing the information of other users. Furthermore, they facilitate the interchange of information with central systems in a safe way.

SCALABILITY

The network supports the growth in the number of users and in the new necessities that can arise, putting our service as a technological reference and as a current service capable of maintaining this position during these last years.

Nevertheless, the solution of **EkoPLC** is not limited to a robust, modern, general-purpose network infrastructure, adapted to the current necessities and with scalability capacity, but rather it is reinforced with appropriate management during the lifetime of the project, from its design to its maintenance, with processes of radio frequency certification, redesign in-situ and certification of coverage. Adequate procedures and have been developed for this, among these the new monitoring tool stands out as does the remote management of networks.

MANAGEMENT SOFTWARE

EkoManager is the monitoring and network management tool developed by **EkoPLC** that controls and displays the state of the different devices of which a network is composed. The final objective of this software is to give a tool that can govern the different devices that are managed centrally.

The difference with the existing possible solutions in the market is that the great majority of these are oriented to a concrete manufacturer and they only manage that manufacturer's equipment by means of protocols, often, proprietary.

The **EkoManager** monitoring tool facilitates the management of a plurality of equipment and manufacturers in a centralized and modular way, in such a manner that facilitates the evolution of the test or information gathered in function of the future possible evolutions.

In this way, the **EkoPLC** network management tool not only allows the monitoring and management of those A, but also of Aps, switches, routers and other elements that are part of the network.

The **EkoManager** monitoring tool also facilitates the creation of custom spaces, as well as the application of security policies for the different users of the tool, in such a way that there are users that can only monitor and others that can manage, modify and even control the remote networks.

In addition, the **EkoManager** tool facilitates a future scalability with the definition of new tests for new equipment given its universality and support of a great variety of management protocols.

☐☐☐ EKOPLC



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