

Networking and Building Automation Systems ***Our engineering services***

Structured cabling and data center design

We design structured cabling systems and networks, copper or fibre-based. Also wireless systems for indoor LANs (Wi-Fi) and outdoor links (Wi-Fi and Wi-Max)

Nowadays structured cabling, given the trend toward convergence, can support not only data traffic but also voice and video applications, videosecurity systems, building supervision and other applications. One physical

infrastructure, with a long useful and economical life, can substitute many separate traditional cablings. If data carrying systems can be designed alongside the building since the beginning, costs can be lowered and a tight overall integration can be reached. We routinely work alongside architects and other professionals in complex projects. Data carrying systems and BAS systems can significantly increase building value, be it for sale or for rent.



All our cabling designs keep in mind IT security from the ground, up to the application layer of the system. If required we can design the system up to active network devices (switches, routers, PBXs etc) and applications.

For wireless installations we perform surveys in existing buildings and signal cover analysis and simulations in to-be realized buildings. We plan and design indoor or outdoor installations.

One of the most revolutionary applications of Ethernet / IP Networks nowadays is digital videosecurity / videosurveillance. We have a lot of experience with that kind of plant, having worked for private and public organizations in the past. Care should be used when designing and commissiiong these systems to security and performance, taking into account such elements as lighting conditions, camera positioning, frame-rate and resolutions, transport systems, recording capacity, and others, to ensure an optimal result.

Building Automation Systems



Building automation comprises the control and management of the whole building installation: heating, air conditioning, lightning systems, security equipment, access control, videosecurity etc, allowing also advanced applications like load management, historical archiving of energy consumptions etc.

The overall goal is to reduce resource consumption, to increase safety and security, as well as to increase the comfort of the people.

We plan and design building automation systems including supervision and control software systems. Our designs leverage on standard protocols, like Ethernet, TCP/IP and Wi-Fi, or EIB/KNX for building automation in order to simplify the overall design, lower cost and prolong the useful life of the system. Our experience in cabling design, networking and software allow us to easily integrate BAS systems with IP networks and web applications.

We usually design following the precise need of the construction company - in the case of new constructions - or of the customer, choosing hardware and design solutions conforming to budget constraints and performance requirements. Our customer range from industrial plants to offices to touristic structures.

We offer a complete range of engineering services:

- Feasibility studies for new projects
- Evaluation and documentations of existing systems on the premises
- Design and project management services for all facets of networking and infrastructure
- Economical and financial analysis of the project
- Detailed planning and designing
- System planning, design and budgeting
- Selection of suppliers
- On-site project management during construction
- Device field programming and commissioning
- We provide full documentation of the system (as-built)

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