DOMINIA:

Methodology for Selection and Development of Computer Aid Domotics Projects

With this application we are trying to analyze and to solve different problems derived from selection and development of domotics projects in buildings. The application will cover from the suggestion of the most appropriate domotics system (architecture and technology) for the specific project to its final implantation and maintenance.

We will propose a methodology of selection based in a expert knowledge. We consider multiple factors like:

Architectural Elements of the Building
Number and Type of Building Areas
Domotics Components (Number of Sensors and Actuators)
Domotics Functions
Installation
Quality
Usability
Utility
Safety
Security
Comfort
Standards
...

All results will be presented in comparative graphics between the existing domotics systems. We will also explain why an election can be better than another.

The next stage in DOMINIA will be the programming of a CAD tool to help and guide the domotics designer. In this program, we will add a palette with domotics objects that will allow to conceive free error designs and more optimized installations.

Finally, we want to emphasize that our project will be open: we can add new extensions without reprogramming, by means of an object management module, which will increase the data base and the relations between objects.