E-DOMOTIC

SECURITY
LIGHTING
CONNECTED
ROBOTICS
HOME
PROGRAMMING
ADVERTISING
MARKETING
COMMUNICATION
CONTENT
SERVICES
ORGANIZATION
DIGITAL
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W3C
MACHINES
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SOCIAL MEDIA
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BRANDING
M2M
MULTIMEDIA
SERVICES
CONSUMER
CONSUMER DEMAND
DEVICES
NETWORK
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WEB MARKETING
MOBILES
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SOCIAL
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MACHINES
SOLUTIONS
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VISION
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WEB DEV
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ENTER TO THE FUTURE

Domotic Intoduction

E-DOMOTIC
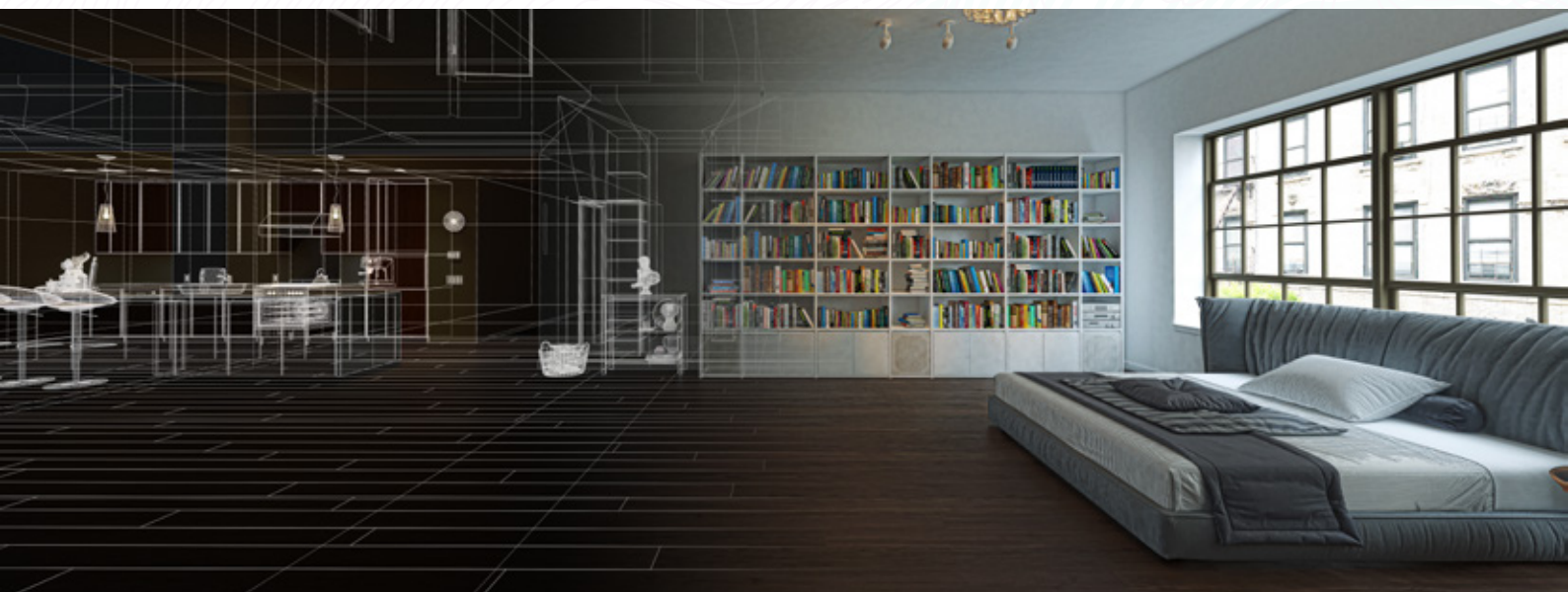
A click is enough for the house of the future!

The lights of the house come on automatically with the setting of the sun, the blinds on the windows rise to the sound of the alarm clock and the refrigerator warns us when the food is expiring or what recipe to prepare for dinner.
Until a few years ago all this seemed possible only in science fiction movies, but today it is reality.

Our homes are increasingly connected and intelligent thanks to the domotic technology and the "Internet of Things" and everything is designed and studied to make our days comfortable and safer. At the center, we are there. People. The house of the future is managed with a simple click, via smartphone or tablet.
Let's find out what are the characteristics of a home automation and what advantages we could have by making our home "smarter".
What is home automation?

Home automation, a term that derives from the union of the words domus (in Latin "casa") and robotics, is the science that deals with the study

of technologies aimed at improving the quality of life in the home and in general in living environments. Born by the impulse of the strong technological drive that characterized the second half of the twentieth century, it aims to simplify, connect and make "intelligent" systems, appliances and equipment in homes.

"Home automation comes from the union of the words domus (home) and robotics"

Thanks to domotics, in fact, the coordinated management of all these systems takes place, which interacting with each other can be controlled by a single program or control device. This is the big difference between a home automation system and a traditional system, in which the equipment does not interact with each other and has a non-autonomous functioning.

What can be managed with a home automation system?

There are numerous areas of the home that can be automated thanks to the installation of a home automation system. The smart home can be managed with extreme simplicity, just a tablet, a remote control or a touch screen panel to program and coordinate the operation of the various technological systems connected.
Here's what we could do "intelligently" by equipping our home with a home automation system:

ENVIRONMENT

Schedule switching on or off of the house lights, opening or closing blinds or rolling shutters, entrance doors or rolling shutters.
Climate and regulate the temperature of the various domestic environments, even room by room.
Plan the irrigation of the garden or plants on the terrace.
Manage the heating of water for sanitary use through boiler, water heater or solar panels.

DOMESTIC APPLIANCES

Program operation, switching on and off of refrigerator, washing machine, dishwasher, oven, stove, TV, stereo, telephone, etc.
Also manage remotely (remotely) the operation of smart appliances.

SAFETY

Programming and managing systems for entry / access to the home, security and intrusion systems, communication between inside and outside, fire protection or anti-flooding.
Videocontrolling domestic environments even remotely.

ENERGY SAVING

Constantly monitor energy consumption
Program and manage the single consumption of household appliances, thus avoiding overloads and waste.

Hardware

The commands and the domotic implementations are divided into different categories:

INPUTS

By entry we mean every type of information sent and received by the system (Eg: a button of command is considered an input because by pressing it, the information is transferred to the system domotic that something must change, even a flood sensor is interfaced with a input, as also in this case there is a transfer of information from the sensor to the domotic system).

OUTPUTS

The outputs are the actuations that the system must control (Eg: a lamp is an implementation to be controlled, a motor can have two different implementations such as ascent and descent of a shutter and in this case the outputs to be used are two).

DIMMER OUTPUTS

The dimmer type outputs are actuations with a variable value (Eg: change the percentage of brightness of a lamp means to assign a value to the actuator that commands it). RGB type outputs.
The RGB outputs are variable outputs that control the colors Red, Green, Blue (Eg: if you want change the color of the light present in a room, we must change the 3 RGB values so that these colors are mixed to achieve the desired color). The RGB type outputs engage 3 variable implementations on the home automation system.

TEMPERATURE VALUE HUMIDITY INPUTS

The inputs of the temperature value type are used to measure the temperature of the environment and of consequently send single or zone / group commands to the different actuators that could.
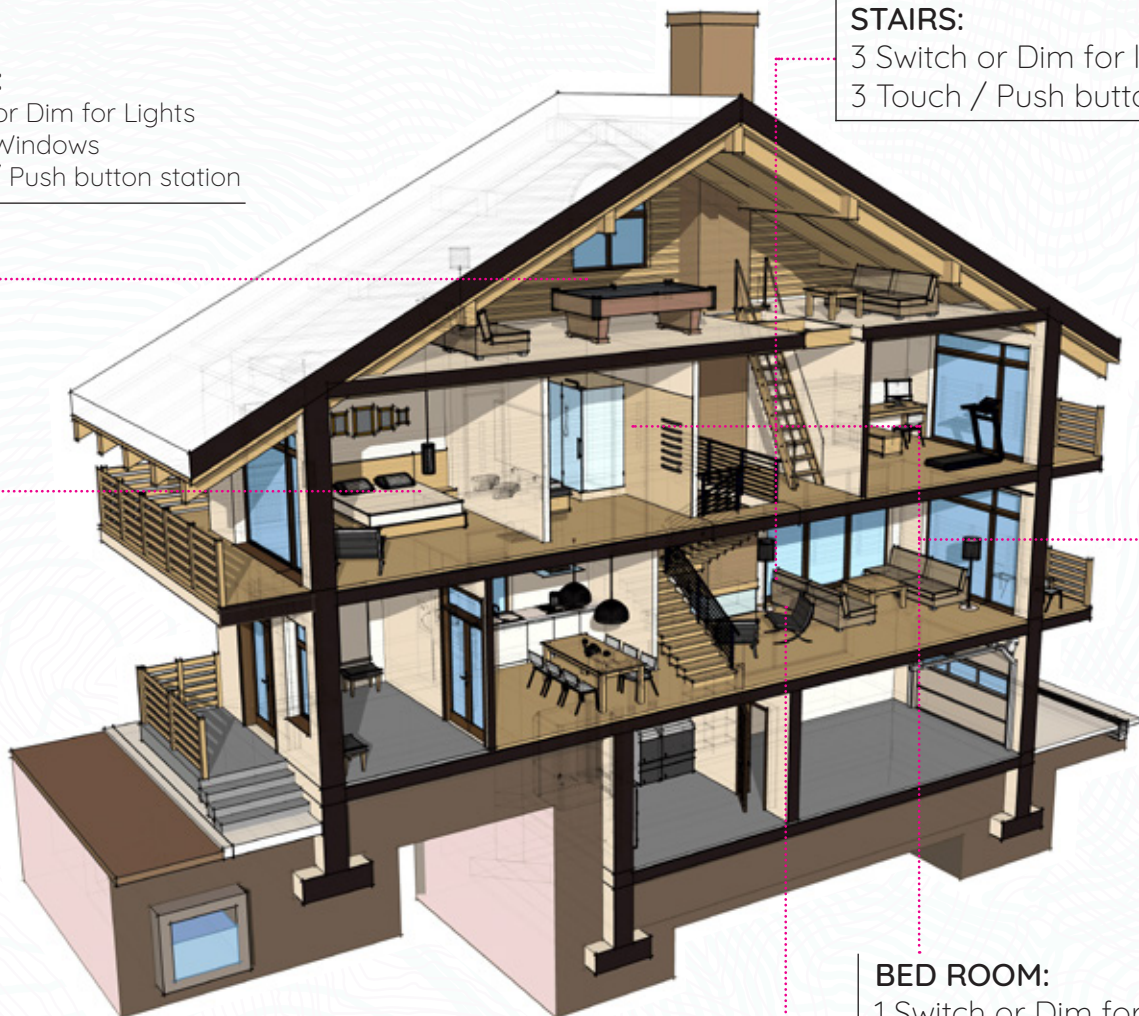For example, control the zone valves or directly air conditioning.

SENSORS

The detection sensors to be combined are those sensors that are used to manage some equipment inside the plant. They can be Safety Sensors (eg flood sensor, gas or fire protection), Sensors for Motorizations (eg wind or twilight sensor) or Sensors for Irrigation (eg rain or humidity sensors).

Configuration Example

STAIRS:
3 Switch or Dim for lights
3 Touch / Push button station

MAJLIS:
2 Switch or Dim for Lights
1 Blind / Windows
2 Touch / Push button station

BED ROOM:
1 Switch or Dim for light
1 Blind / Windows
2 Touch / Push button station

MASTER BED ROOM:
2 Switch or Dim for Lights
2 Utility Sockets
1 Blind / Windows
4 Touch / Push button station
1 Touch PC (Windows 10)

KITCHEN:
2 Switch or Dim for lights
1 Switch outdoor light
1 Blind / Windows
2 Touch / Push button station
1 Touch PC (Windows 10)

FAMILY HALL:
3 Switch or Dim for Lights
1 Outdoor Light
2 Utility Socket
2 Blind / Windows
7 Touch / Push button station
1 Touch PC (Windows 10)

Note: IoT Link leverages Microsoft Azure features to ensure the maximum safety and protection of data every time the access to our system happens from remote.

Functionality of the extra-capitulated system

Users who want to integrate their home with additional systems are the advantages of their system with additional Extra-Pack packages, which have more value to their home.

EXTRA-PACK HOME SOUND SYSTEM & HOME CINEMA

The perfect integration of a sound diffusion system through a compatible amplifier or SONOS Wi-Fi systems further amplifies the experience and comfort of a technological home: you can associate the multimedia component with the execution of specific scenarios, allowing you to reproduce in any area of their residence their own music, playlists or favorite radios.
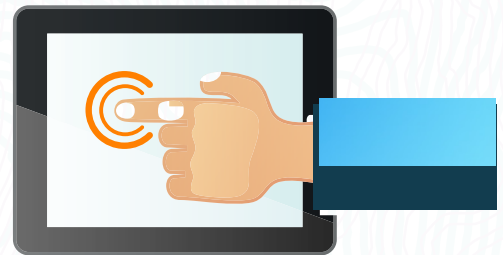
EXTRA-PACK VIDEOCONTROL

Videocontrol increases the security level of the home, especially if the cameras are perfectly integrated into the home automation system. The videocontrol package allows to have a complete system and a single tool to manage and monitor the status of the cameras.

EXTRA-PACK ADVANCED SCENARIOS

Creating preset scenarios can be very useful for routine actions. A physical button (Programmable By User, PDU) is created to associate with a scenario that can be changed to any need. So you can have a custom button that can change functionality whenever you want.

EXTRA-PACK IRRIGATION

With the management of the intelligent irrigation system and completely integrated into our system it is possible to water the plants in an optimal way, making them healthier and more luxuriant. With this package it is possible to reduce waste by adapting the irrigation modes to the needs of each type of vegetation. It is also possible to set up dedicated scenarios that can be activated manually or automatically using the software's present time programmer.

EDOMOTIC

EDO DOMOTIC ELECTRONIC DEVICES SYSTEMS L.L.C. GLOBAL HERITAGE PROPERTY BUSINESS CENTER
Omeir Bin Youssef & Sons Building (OLD UAE EXCHANGE BUILDING)
HAMDAN STREET, FIRST FLOOR, OFFICE #109
ABU DHABI - UNITED ARAB EMIRATES

E-Domotic is an EDOUAE Company Group

info@edouae.com