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Description	Home Automation the <i>NEW</i> way		



iControl the world.
The NEW way

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Technology Convergence

The convergence of technologies has meant that previously diverse systems can now be “glued together” - allowing us to control and get feedback much easier than was possible before. WiFi, BlueTooth, Infra Red, RS232, RS485 are all standards that allow devices to communicate – if we flatten all of these to a common platform using inexpensive IP converters, we then have the ability to interact with the systems by simply understanding the language each system uses. Each technology has very specific capabilities and limitations and each protocol has specific design criteria– if we understand these, we can apply the correct technology to provide a cost effective control solution.

Application Examples

To illustrate the point, I will show 3 different options, each has its own set of benefits and disadvantages whether this be price, range or any other measureable criteria. To keep this simple we will use 4 comparison criteria

1. Price
 - a. Inexpensive (household monthly budget)
 - b. Moderately priced (lets save for a couple of months before we buy this)
 - c. Expensive (great – lets apply for a loan)
2. Range
 - a. Bluetooth (about 3m line of sight)
 - b. Wifi (about 10m line of sight)
 - c. Wired Ethernet (100m between hub and equipment)
3. Installation
 - a. No power point/wires required
 - b. Needs a power point and a wired route
 - c. Needs a power point only
4. Location
 - a. On a coffee table
 - b. Next to the existing AV receiver
 - c. In a ceiling or cupboard

Control your AV system in a single room such as a lounge

Most houses have an audio visual system in the lounge. A basic example would be

- HD TV
- DSTV decoder.
- AV receiver or Amplifier with speakers
- DVD or BluRay player

Enter the iPad

With the launch of the iPad came a revolution in the application of user interface devices and a rethink of how automation should be done.

Traditionally, each control system supplier designed a custom user interface device – typically a touch screen – and expected the users to learn how to interact with their system through a sometimes “difficult to navigate” interface. No industry standards were applied and because of the high research and development cost and relatively low sales volumes, the devices tended to be very expensive and in many of cases not very robust.

Enter the iPad – now here is a device that negates all the criticisms of legacy touch screen user interfaces.

1. Extremely well designed
2. Intuitive interaction with the user
3. Can be used in many applications - users become familiar with interacting with the device
4. Open Standards means multiple vendors can design applications
5. Price performance far exceeds the current user interface offerings



iControl

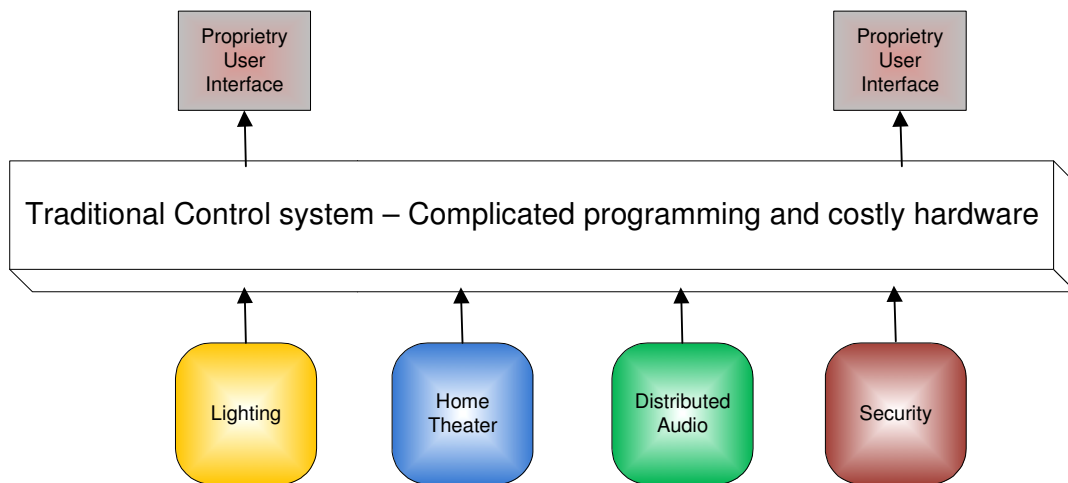
iLED iControl is a NEW approach to home and commercial automation. We use the intelligence that is embedded in your home equipment to provide seamless control – nothing fancy – we simply do it the eZi way.

Automation systems are designed to simplify our lives by bringing together the various components such as lighting, distributed audio, control of your displays, DVD and decoder etc. The user is removed from the individual systems by a uniform user interface such as a universal remote control or touch panel.

The OLD method was to purchase a central processor and create a program to communicate to each of the devices. The information would be duplicated in the processor and be available on a user interface. As technology has advanced, the devices have become more “intelligent” where intelligent refers to ability of the device to communicate using one of the industry standards. The NEW automation systems simply take advantage of this ability to communicate and allow the user interface device to interact directly with each device resulting in great system independence. No central processor – so no catastrophic system failures. No central processor – so no expensive hardware to maintain. No central processor – so reduced wiring.

The OLD way

The traditional model has been to create a control layer between the various systems to provide a duplication of each sub-system. This was done to create a standard platform for intercommunication between sub-systems.



The net result is the stand alone sub systems are reliant on a single controller. How many owners of home automation systems have been left in the dark after their control system failed?

The NEW way

iLED have been working closely with the leading suppliers in the market to ensure that we provide an open platform solution for the next generation open architecture automation systems. This philosophy applies to both *home* and *corporate* automation.

With Global Cache as the interface between the automation systems that do not have IP connectivity and Command Fusion as the user interface application on your iPad, iPhone or iTouch you can now control the world.

Speak to iLED to change the way you automate.



Is this limited to iPad

Many devices are being released onto the market in the personal device market. There are a couple of operating systems available, the most widely used are Apple and Android. Both operating systems can be used for home automation.

A comparison

To illustrate the benefits of iControl, a comparison of a home automation system using traditional control and iControl is shown below.

Discipline	iControl	Traditional (other) Control systems
Cabling		
Control Equipment		
Programming		
Schematic		
Independence <small>Each system will function if the central processor fails</small>		
Price		



iLED and Home Automation

iLED has over 25 years management experience in designing automation systems – our offering includes

- Lighting Control with Astronomic clock option
- Swimming Pool and Sprinkler control
- Distributed Audio control
- Distributed Video control
- Room device control (Displays, PVR, DVD, tuner)
- Theater control (Displays, motorised screens, AV receivers, curtains and blinds)
- Intrusion interface
- CCTV interface
- Intercom interface
- Climate control (airconditioning)

iPad/iTouch/iPhone are registered trademarks of Apple Inc.