

BUILDING



issue one
winter 2002

JOINTLY PRODUCED BY CLIPSAL INTEGRATED SYSTEMS AND THEIR NETWORK OF SYSTEMS INTEGRATORS

Automation: Your questions answered

LIFTOUT:

**A COMPLETE LIST OF CLIPSAL'S
SYSTEMS INTEGRATORS**



CIS SUCCESS STORIES

NEO: Face the Future

**The Smart
Direction in
Building**



Welcome to the first issue of Building IQ!

As the leading manufacturers of home automation technologies in Australia and Asia, Clipsal Integrated Systems (CIS) have been waiting some time to launch a magazine for building designers.

Together with our network of systems integrators we have developed Building IQ, a medium through which we can keep our audience informed of the latest developments in the field of automation.

Our aim, each quarter, is to bring you stories that are relevant to your business now and in the near future. Each issue will address the latest building automation technologies as well as showcase some of the unique and hi-tech installations carried out by our systems integrators.

We will talk to architects, engineers and designers who are already specifying automation systems, to find out what they like about the technology and what it can do. We will talk to your clients to find out how automation has changed their life in both commercial and residential applications.

Through the regular Q & A section, Building IQ will also provide a forum through which your automation queries can be answered.

For more information on automation, its capabilities and benefits, we have also included a convenient liftout in this issue listing the contact details of our systems integrators. Located throughout Australia, our network of systems integrators are specialists in designing and implementing smart building solutions and welcome your enquiries.

We hope you enjoy reading Building IQ and will look forward to reading future issues.

Best Regards



Ron Ghezzi

Marketing Manager – Clipsal Integrated Systems



Send your questions to:

Building IQ - Q&A, C/- Systems Integrator Services Manager, 122 Canterbury Rd, Padstow NSW 2211.
E-mail sharon.harris@cispl.com.au or fax (02) 9790 2327.

What is a Systems Integrator?

A Systems Integrator is a person or company that provides total integration of devices in a home or business e.g. security, lighting, air-conditioning, watering systems etc., to communicate to each other by way of high-level interfaces (data). However systems integrators don't just install equipment, they work alongside builders, architects and building users to ensure the client's needs and expectations are met.

Systems Integrators are professionals who are experienced in designing and implementing smart building solutions and have a broad knowledge of the available technology. They identify any limitations and problems, they analyse building and wiring schematics, establish the brief and plan the detailed smart building solution and recommended equipment. It is the integrator's role to help the client, builder, architect and consultant understand the automation options available to meet the individual requirements and budget of each project.

What is home automation?

Home automation is automating your home's devices whether it be lighting control, watering systems, pool and spa, audio/video or air-conditioning, to turn on and off automatically

and behave in a way you would like. For example When you come home and push the button on your remote to open the garage door, the security system disarms, "welcome home" lighting comes on if it is at night, your favourite CD starts playing softly throughout the home, the air-conditioning system starts cooling or heating to your desired temperature etc. All of these devices can be programmed in many different ways to make those daily chores easy and automatic so you can spend more time with your family or just relaxing.

Why should we go to all this trouble and cost just to turn on lights?

If all you want to do is turn lights on, then C-Bus probably isn't for you. C-Bus is more about flexibility and functionality. It's about adding convenience and security to your lifestyle. For example, being able to press one button and create a complete mood in your home by closing curtains, dimming groups of lights to defined levels, and arming the exterior security zones of your home. If you've forgotten to arm the security system, C-Bus allows you to do so from the comfort of your office. If you want to turn the air-conditioning on before you get home, you can do so from the convenience of your car. A Clipsal C-Bus system can be tailored to do exactly what you want it to do.

Is it easy to use?

A C-Bus system should be configured with the end-users and their specific requirements in mind. If a C-Bus system is installed and isn't easy to use, the system has been badly designed. The systems integrator must have a clear understanding of the client's needs and expectations and customise the system accordingly.

I want automation in my home but I can't afford it at the moment, can I install it later?

Automation systems can be installed in stages throughout a home, as long as the cabling infrastructure is put in place at the start. You can start with basic lighting control and build on that over the years to full control of the home. Existing homes can be retrofitted, depending on construction e.g. access for cabling.

What happens when the power goes off?

In the event of a power failure, the same thing happens as with a conventional electrical installation – nothing will switch on! When power is restored, C-Bus and all devices connected to C-Bus (e.g. security lighting, pool filters), will operate as you request them to i.e. after a power failure, you can program any device linked to C-Bus to turn on, stay off or return to how it was before power was lost.

CIS AUSTRALIA



“the world’s most advanced, yet user-friendly range of electronic automation”

When the first Clipsal product was manufactured in 1920, the range of adjustable conduit fittings that clipped all sizes of conduit revolutionised the electrical industry. Today, Clipsal Integrated Systems (CIS) is set to do the same, with a focus on producing the world’s most advanced, yet user-friendly range of electronic automation and energy management systems.

The flagship of the CIS product range, the C-Bus Building Control and Management System, has astounded its peers and impressed the wider electrical and building industries with its powerful capabilities, yet remarkable simplicity of design and operation. Launched in 1994, C-Bus has achieved worldwide success and has been instrumental in helping people understand the importance of large scale energy management, reducing power usage and preserving the world’s natural resources.

Based in Adelaide, South Australia and under the leadership of General Manager Stephen Cope, the highly skilled sales and technical support staff at CIS are trained in every aspect

of each system’s operation and installation. Local experts have also been established in key areas such as, South Africa, the United Kingdom, Greece, Malaysia, Singapore and New Zealand, to better service and support the specific requirements of each of these countries.

With a work force of 250-500 employees, CIS operates with a great deal of autonomy from its parent company, Gerard Industries. Its high level of infrastructure, includes its own in-house design, engineering and manufacturing facilities led by Engineering Manager Jason Gerard, contributing to the production of truly intelligent, innovative products.

Today’s constantly changing technological landscape and the rapid acceptance of new technologies sees an unsurpassed level of enthusiasm and dedication by CIS. Boasting a series of intelligent building and home management products, CIS promises to be a major player in the exciting changes that will witness technology being taken to new limits and no doubt transform the way we see electrical installations in the near future.

For more information on any of the topics in **BUILDING IQ**, please contact one of the Systems Integrators listed on pages 5-8.

Alternatively, you can contact the CIS head office on (08) 8269 0560



C-Gate – Your Integration Solution



Introduced in 2000, the C-Gate software package is the solution for anyone who wants C-Bus compatible application software to interface with other building management systems.

C-Gate is the gateway for any type of equipment to translate its vendor-specific protocol to a standards based one allowing smooth integration. It enables a ‘building-

block’ approach to be used by not restricting users to a specific vendor i.e. any component in the installation can be replaced with a similar component from a different vendor without affecting the end-user. Suitable for use in any application where multiple, diverse systems must co-exist and be integrated, C-Gate will support almost any operating system including Unix and Apple Mac.

A systems integrator at OmniSol in Cape Town, South Africa, Jannie van Zyl is an avid supporter of C-Gate, having followed its development since Version 1.0. Prior to C-Gate’s release, OmniSol were facing increasing pressure to provide a software package with integration capabilities. C-Gate was the perfect solution.

“When C-Gate became available it was exactly what we were looking for,” Jannie said.

“In any application where you need to control diverse equipment, you don’t want multiple control systems that are not integrated.

“C-Gate allows any management system to interface with C-Bus.”

Jannie recommends C-Gate for both residential and commercial projects, and finds it particularly useful in applications which call for scene control and power management. The only system of its kind on the market, the convenience and advanced capabilities offered by C-Gate are impressive.

“C-Gate provides clients with peace of mind that they are not buying into a vendor specific solution. It’s future-proof,” Jannie said.

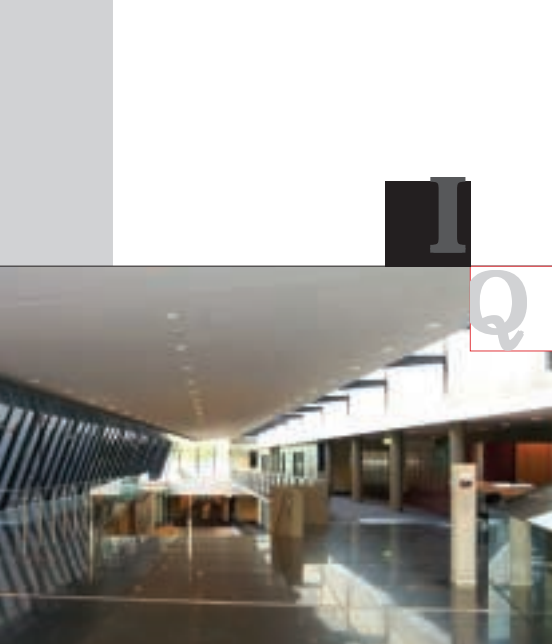
“Changes can be made to the installation completely transparent to the client.”

Reflecting on his experiences with C-Gate, Jannie is positive that many of the outcomes achieved in his projects would not have been possible without C-Gate.

“C-Gate adds a great level of functionality,” he said.

“In larger applications, especially where multiple, diverse systems need to be controlled or where sophisticated GUI’s are required, C-Gate is the only viable solution.

“It’s an awesome product and light years ahead of what other players in this field are doing.”



SYDNEY CONSERVATORIUM OF MUSIC

Once housing the stables for Government House, the redeveloped Sydney Conservatorium of Music, has been transformed into a completely state-of-the-art learning and performing arts centre.

The utilisation of Clipsal Integrated Systems' C-Bus Building Control and Management and HomeMinder Home Automation Systems has provided a timely, cost effective and convenient solution.



The Building

The castellated building overlooking Sydney's Botanic Gardens spans almost 30,000m². The centre consists of a world-class concert hall, a café, a 250-seat music workshop, twin recital halls and more than 130 practice and teaching studios. The northern side of the redevelopment also houses the Conservatorium High School.

The Requirements

Given the size and varying functions of the building, the client was in need of a system that would enable them to control and monitor all lighting and ventilation from one central location.

Different areas of the building operate at different times of the day and week. Therefore, the client required the ability to automatically turn lights on and off in different areas but also make provision for the system to be manually overridden.

Electrical consultant, Barry Webb & Associates, specified the Australian made C-Bus product because of its good reputation and cost effectiveness. Although the C-Bus system was slightly more expensive than a conventional wiring system, the flexibility and functionality offered far outweighed any monetary difference.

The system was installed by Banabelle Electrical and the design was a joint effort between Banabelle's Wayne Schofield and Project Connection system integrator, Mark Littlefield.

The Result

C-Bus has given the client the ability to infinitely vary the switching times of all lights and fan coil units through separate lines of program in the HomeMinder system.

Lights can be turned on and off automatically in different areas at different times on different days and groups of lights can be turned on and off via the GUI on the computer in the security office. Manual override switches are also in place for people working in areas outside the programmed switching times.

The Concept access control and security system used in the building, is integrated through HomeMinder to turn on the car park lights when the first person of the day enters and swipes their access card in the card reader. The car park lights are automatically turned off at a particular time, depending on the day of the week.

Fan coil units are put on stand by mode each morning and are automatically turned off at a certain time at the end of each day. This enables significant power savings to be made as the air-conditioning operates on a room by room basis, working only when required and automatically shutting off when not in use.

Benefits

The benefits to the Sydney Conservatorium are many. C-Bus and HomeMinder have provided the building with a completely automated internal and external lighting system, as well as an energy efficient heating and cooling system.

The building manager has learnt to operate the system and undertake minor programming changes, eliminating the need to continually call in professionals. Major programming changes are undertaken by Project Connection.

The incorporation of automation in the redevelopment of the Sydney Conservatorium of Music has provided a flexible, convenient and security conscious solution that enables easy reprogramming that normally would result in hefty rewiring costs.



Specifications

- 1 x Version 2 HomeMinder
- 17 x Network Bridges
- 53 x Power Supplies
- 220 x 4 Channel Relays
- 40 x 1 Channel Relays
- 4 x 4 Channel 5 amp Pro Series Dimmer
- 290 x 1 Gang Key Input
- 185 x 2 Gang Key Input
- 18 x 4 Gang Key Input

CIS SYSTEMS INTEGRATORS

AUSTRALIAN CAPITAL TERRITORY



Capital Tech

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TUGGERANONG ACT 2901
PH: (02) 6294 7155
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Glen Wollenweber

MOBILE: 0418 630 528
PROJECTS: New Parliament House, MLC Tower, National Film & Archives, Department of Transport, ComCare, Family Law Courts, CSIRO, Royal Life Saving Society.



Data Key Systems (ACT) Pty Ltd

28-30 Essington Street
MITCHELL ACT 2911
PO BOX 66
MITCHELL ACT 2911
PH: (02) 6241 5711
FAX: (02) 6241 4920
EMAIL: info@dks.com.au

Trevor James

Bruce Woodbury – Project Manager
PROJECTS: Discovery House (Woden, ACT), Garema Court (Civic, ACT) and Oliver Residence (Bruce, ACT).

NEW SOUTH WALES



Automated Lifestyles

256A Annangrove Road
ANNANGROVE NSW 2156
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EMAIL: info@autolife.com.au
INTERNET: www.autolife.com.au

David Symons

MOBILE: 0418 229 037
EMAIL: David@autolife.com.au
PROJECTS: BBC Hardware Houses, Disco Bowling Club, Etamogah Pubs, NSW Harness Club, Apartments at Bellevue Hill, Coogee Beach and Point Piper.



Complete Home Control

2/28 Willis Street
CHARLESTOWN NSW 2290
PH: (02) 4942 2606
FAX: (02) 4942 4845

Stephen Yorke

MOBILE: 0410 578 706
EMAIL: stephen.yorke@hunterlink.net.au
PROJECTS: Lake Macquarie City Art Gallery, Maitland City Council Chambers and Library, University of Newcastle, Club Phoenix, Belmont Bowling Club, Historic Hydro Hotel, Mercia Software Head Office.
AWARDS: 2001 – Lower Hunter Civic Design Award, Dangar Award at the Lower Hunter Civic Design Awards.



Complete Technology Integrations

Unit 16, 1 Talavera Road
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PH: (02) 9887 1000
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INTERNET: www.ctia.net.au

Peter Garrett

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EMAIL: peter.garrett@ctia.net.au

Scott Warren

MOBILE: 0405 111 220

Graham Lamb

MOBILE: 0405 111 223
EMAIL: graham.lamb@ctia.net.au
PROJECTS: Sydney City Lexus, NRMA, Sydney Toyota, Jaguar, State Bank of India, Cisco Systems.



Electronic Environments

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OATLEY NSW 2223
PH: (02) 9585 1233
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Gary Sayer

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Darren Blake

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ERIS McCARTHY SMARTWIRED HOMES

Eris McCarthy Pty Ltd (Eris McCarthy Home Technology)

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Tumbi Industrial Estate
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Tumbi Umbi NSW 2261
PH: (02) 4389 1990
FAX: (02) 4389 2177
EMAIL: techmc@mccarthy.aust.com

Eris McCarthy

MOBILE: 0412 437 922

Joel Coster

MOBILE: 0412 109 269

Matt Dowse

MOBILE: 0412 108 618



Hunter Building Automation and Protection (H.B.A.P)

PO BOX 361
CHARLESTOWN NSW 2290
PH: (02) 4920 7786
FAX: (02) 4920 7787

Greg McCarthy

MOBILE: 0411 434 219
EMAIL: gregmcbap@bigpond.com
INTERNET: www.hbap.com.au

PROJECTS: H.B.A.P are the specialists in the design and installation of automation. We have had the pleasure of servicing our expertise to numerous prestigious residences, Hunter Valley Gardens Conference Centre, Newcastle RAAF Base - Weapons Training Centre, supermarket complexes, commercial properties, pools and sporting and recreation clubs.

Jory Electric Pty Ltd

8 Candowie Crescent
BAULKHAM HILLS NSW 2153
PH: (02) 9639 9152
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EMAIL: jory@amaze.net.au

Glenn McJanett

MOBILE: 0416 274 275

John McJanett

MOBILE: 0416 274 273

Jory Electric has been contracting for 25 years, doing large homes and some light commercial work. The last 5 years have seen the introduction of C-Bus and Minder installations, as well as Security, Intercom, Phones, Starserve and Sound systems, offering a full installation service.



Len Wallis Audio

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Len Wallis

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Seckin Ozhan

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Life Style Store

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PARRAMATTA NSW 2150
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FAX: (02) 9891 1333
INTERNET: www.lifestylestore.com.au
Vinod Christie-David
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EMAIL: vinod@lifestylestore.com.au
John Kranitis
MOBILE: 0407 442 142
EMAIL: john@lifestylestore.com.au



Millennium IT

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Robert Harvey
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Project Connection

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ST LEONARDS NSW 2065
PH: (02) 9439 9111
FAX: (02) 9439 9222
INTERNET: www.avd.com.au
Mark Littlefield – Managing Director
EMAIL: mark@avd.com.au

Sandy Howard – Director

Julian Muir - Director

PROJECTS: IPAC Australia, Tech Pacific Roseberry, Sydney Conservatorium of Music and numerous high-end, upmarket residences.



Integrate Oz

PO BOX 6224
KINCUMBER NSW 2251
PH: (02) 4382 6200
FAX: (02) 4382 4418
INTERNET: www.integrate-oz.net

Ross Briggs

MOBILE: 0414 434 040
EMAIL: ross@integrate-oz.net

PROJECTS: Ettalong Cinema Complex, Gosford RSL, Toukley RSL and Tuggerah Super Centre.



Sam Hain Electrical & Electronic Controls Pty Ltd

2 Utah Circuit
COOMA NSW 2630
PO BOX 18
COOMA NSW 2630
PH: (02) 6452 1303
FAX: (02) 6452 4809

Sam Hain

MOBILE: 0418 787 222
EMAIL: samhain@acr.net.au

AWARDS: 2000 – NECA Award of Excellence for New Plymouth District Council Thermal Drying Facility, New Zealand.



Switched on Living

Showroom:
108 Pittwater Road
GLADESVILLE NSW 2111
PO BOX 2040
BORONIA PARK NSW 2111
PH: (02) 9879 2100
FAX: (02) 9879 2110
EMAIL: enquire@switchedonliving.com.au
INTERNET: www.switchedonliving.com.au

David Beauchamp

MOBILE: 0414 227 727
EMAIL: david@switchedonliving.com.au

Mark Robins

MOBILE: 0417 227 886
EMAIL: mark@switchedonliving.com.au

PROJECTS: Luxury and family homes, apartments, board and meeting rooms, retail outlets, hospitality and tourism projects.

AWARDS: 2001 AMX Residential Installation of the Year (Australia's first completely voice activated home).

QUEENSLAND

Barry Cooper Electrical Pty Ltd (InTechSys)

22 Caladium Street
WAKERLEY QLD 4154
PO BOX 4147
GUMDALE QLD 4154
PH: (07) 3348 9462
FAX: (07) 3348 9463
EMAIL: coopelec@bigpond.com.au

Stephen Cooper

- Director

MOBILE: 0418 738 940

PROJECTS: Doomben Racecourse Redevelopment, TAFE Colleges (Bundaberg and Ithaca), Lexington Centre, Christie Centre, numerous residential projects that incorporate state-of-the-art lighting control, home theatre, distributed audio and home automation systems.

AWARDS: QMBA – Brisbane Regional Home of the Year, Electrical Innovation and Excellence Award, Best Contract House \$250,000-\$500,000, Best Bathroom and Best Kitchen. HIA Queensland Home of the Year, National Project Home of the Year.

Electrical Integrated Solutions Pty Ltd

8 Brushwood Drive
SAMFORD QLD 4520
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Robert Raciti

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Electronic Environments

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Home Theatrix

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Don MacKenzie

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Intelec Smart Electrical

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INTERNET: www.intelec.net.au

Brian Barlin

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PROJECTS: Chevron Renaissance Shopping Centre, Runaway Bay Sports Centre and Couran Cove Resort South Stradbroke Island.

AWARDS: 2001 – National and State (QLD) Awards of Excellence for Vision in Technology. 2000 – National and State (QLD) Awards for Small Enterprise Division.

McGovern Agencies

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Ben McGovern

MOBILE: 0407 791 745

Kristen McGovern

MOBILE: 0409 238 389

PROJECTS: Numerous low-end to high-end residential projects, Hardware House, Thuringowe Council.

AWARDS: Contractor of the Year (Townsville), Bob Cooper Memorial Award for Excellence.



Securetech Engineering Pty Ltd

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Stuart McMurtrie – Managing Director / Proprietor
MOBILE: 0417 783 774

Bert Pulman – Manager

PROJECTS: BHP Gregory Mine, MIM Newlands Coal, Good Shepherd Lodge Dementia Units, BHP Transport MKY Tug Boats and numerous residential projects.

Sewell Electrical Pty Ltd

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HELENSVALE QLD 4212
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John Sewell
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Suncoast Design Electrics

10 Gossamer Court
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Lance Seabrook

MOBILE: 0419 023 031
PROJECTS: Large project housing and energy lighting control of factories.

Winfield Holdings Pty Ltd

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CAIRNS QLD 4870
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MANUNDA QLD 4870
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FAX: (07) 4032 0327

Peter Winfield

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PROJECTS: Sports World, Cairns City Council,
Department of Fisheries, P&O Resorts, Ergon Energy
Building and Bunnings Warehouse.

AWARDS: 1999 & 2000 – QLD Master Builders
Association House of the Year

SOUTH AUSTRALIA

Axeze the Butler Did It Pty Ltd

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UNLEY SA 5061
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Michael Atkinson

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Automation Dynamics

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Maurie De Gioia

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PROJECTS: The National Wine Centre, Marion
Cultural Centre and the South Australian Education
Department.

Intelligent Home Systems

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Bob Balsamo – Manager, AV Major Projects and

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TASMANIA

Shane Watson Electric

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Shane Watson

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PROJECTS: Gasworks 9/11 bottle shop, St Ives 9/11
Hotel, Wapping 56 unit complex, Glenview Homes
unit complex, Yellow Pages Hobart, City Motors.

AWARDS: 2000 – Australian best bottleshop, '98,
'99, '01 – Tasmania best bottleshop, 1996 –
Australian best entertainment venue, 1995 – HIA
'Best complex under \$500,000'.

VICTORIA



Clever Home Pty Ltd

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Dr Brendan Rogers (PhD BEng IEEE)

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PROJECTS: Specialises in integrating practical home
automation, security, audiophile stereo, home theatre,
multi-room stereo and communications and
surveillance in prestigious homes.



Elecrafft

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Peter Smith

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PROJECTS: Vodafone Arena, The Age Tullamarine
Print Facility, County Court Complex.



IntELEC Smart Electrical

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David Wilson

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PROJECTS: School of Forestry, Dept. of Material
Resources, Classic Homes.

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Emi Borrelli

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Smart Cities

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Andrew Norman

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Adrian Horlin

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PROJECTS: Penguin Books Head Office, Oasis
Apartment Complex, Barkley Street Apartments, Stuart
Street Apartments.

Smart Safe and Sound Pty Ltd

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Ross Tangey

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EMAIL: ross@ssst.com.au

PROJECTS: Madisson Homes, Giroto Precast
(Sydney), Middendorp Electric's Elecvision, Mistral/
Clipsal Warehouse, Waverley Gardens Shopping
Centre, Dandenong Market, Penguin Books
multi-storey office.

AWARDS: 1999 – SEDA Green Globe Award, Gold
Category for Giroto Precast project.



Smart Systems Pty Ltd

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INTERNET: www.smartsystems.com.au

Kay Wennagel

MOBILE: 0413 877 229

Michael Staidl

MOBILE: 0413 877 228

PROJECTS: Daimler Chrysler Australia, Mercedes Australia, Scotch College, State Hockey & Netball Centre, MPV – Vodaphone Arena, Siemens Headquarters, Commonwealth Law Courts and P&O Maritime Australia.

Tunde Electronic Technology

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Alan Horowicz

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Worthington Electrics (Mildura)

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Graeme Worthington

MOBILE: 0418 502 250

WESTERN AUSTRALIA



Electro Acoustic Co Pty Ltd

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Ian Bonnar

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EMAIL: ian@ela.com.au

John Earnshaw

Electronic Interiors

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FAX: (08) 9317 1367
EMAIL: info@einteriors.com.au
INTERNET: www.einteriors.com.au

Tony Cummings

EMAIL: tony@einteriors.com.au



PROJECTS: Residential subdivisions (Ravenswood Sanctuary & Port Kennedy Resort), luxury apartment buildings, many multi-million dollar homes throughout Australia, Standard and Custom packages for smaller homes.

AWARDS: 92-01 - Design and installation of lighting, entertainment, security and automation services in numerous HIA "Home of the Year" and "Best Apartment" categories.

97-99 – Sound & Image highly commended award for best integrated home theatre.

Awarded "Installation of the Year" on numerous occasions.



Intelligent Home Automated Solutions

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Brenton Morris

Stuart Moran

MOBILE: 0411 883 315

EMAIL: stuart@wesco.com.au

Neil Harrison

MOBILE: 0411 883 350

EMAIL: neil@wesco.com.au

PROJECTS: Numerous single and multi-site dwellings, including high-end residential projects and commercial projects including Australand, Engineering Technology Consultants and Norman Disney Young.



Mickbeth Australia Pty Ltd

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INTERNET: www.mickbeth.com.au

Mick Fitzpatrick

MOBILE: 0419 708 144

EMAIL: mick@mickbeth.com.au

PROJECTS: Coca-Cola Amatil (Perth & Sydney), Kwinana Motorplex, St. Ives Retirement Village and East Fremantle Yacht Club.

Mitchell & Brown Communications

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Barry Mitchell



Surround Sounds Pty Ltd

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INTERNET: www.surroundsounds.com.au

Mark Jelsman - Manager

Matthew Gardiner – Design Manager

Brad Harding – Project Manager

PROJECTS: Mainly exclusive private residences as well as numerous residential and small commercial projects.

TASC Digital Control Systems

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Wayne Carter – General Manager

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Bruce Pearce

MOBILE: 0403 461 088

EMAIL: bruce@tascwa.com.au

PROJECTS: Perth Council House, Myer Stores, Mt Lawley Golf Club, P&O House, CISCO Tokyo, Mercy Hospital, Orca Explosives, Fremantle Maritime Museum.

NEW ZEALAND



ECOsystems Limited

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Scott Martin

EMAIL: scottm@eco.co.nz

PROJECTS: WelTec, Wainuiomata High School, Taita College, Viard College, Rongotai College, Wellington Girls High School, New Zealand Post and Reserve Bank of New Zealand.



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Graham Hutchison – CEO

Malcolm Rickerby – General Manager

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A collaborative effort between Perth based systems integrators, Surround Sounds, Zorzi Builders, Redgewell Electrical and MMA Interiors, saw the construction of this luxury home in Perth's northern suburbs completed in December, 2001.

The incorporation of Clipsal Integrated Systems' C-Bus Building Control and Management and HomeMinder Home Automation Systems and the StarServe Home Networking System, has equipped the client with the facilities to meet their current and foreseeable technology needs. Hence, providing them with a completely future-proof home automation solution.



SMART LIVING



CASE STUDY



The Result

The reliability and flexibility of C-Bus enabled the clients to evolve beyond their initial automation ideas. Internally, C-Bus controls all lighting circuits and exhaust fans. Outside, C-Bus is responsible for the function of the pool and garden lighting and the water pumps in the garden features.

A powerful degree of control has been further achieved through the integration of the HomeMinder system with C-Bus. This enables lighting in the home's key areas to be controlled by one touch moods or scenes, creating a different ambience for every occasion e.g. Pushing "dining" mode dims each of the many lighting circuits in the dining room and its immediate surrounding areas to create the perfect dining atmosphere. Other one touch modes provided include, entertain, meal time, cocktail and entry.

In the Home Theatre, an infra-red C-Bus switch controls a combination of halogen down lights and neon tube lights. A touch screen home theatre remote control enables the owners to select from a variety of lighting scenes including movie time, intermission and a simple all on or all off.

A seasonal schedule programmed into HomeMinder controls all garden, and external lighting and water features. At night time a convenient "sleep" mode feature times out all lighting left on after two minutes, excluding the children's bedrooms and bathrooms to allow for independence.

The security features installed include external Infrascans which switch on pre-programmed external lighting on movement. In addition, through the integration of C-Bus, HomeMinder and the security system a number of Away, Arm and Disarm alarm modes have been set to suit the owners requirements.

The installation of the new StarServe Pro provides an excellent distribution gateway to the many home services including telephone, fax, modem, PC (LAN) distribution and the RF TV Antenna signals. It delivers and integrates a multitude of TV signals throughout the home, allowing the viewing of DVD, VCR, Pay TV from the Home Theatre and the four CCTV cameras surrounding the property. The StarServe system saves on the need to duplicate equipment and provides a great deal of independence for the viewing habits of the household.

The Benefits

The installation of this hi-tech automation system allows sophisticated but simplistic control over all areas of the home. The adaptability and flexibility of C-Bus, HomeMinder and StarServe will provide the client with the ability to easily introduce new technologies to the home with minimal impact and cost.

As experienced systems integrators, the team at Surround Sounds always strive to provide creative and tailor-made automation solutions for their clients. With the cooperation of Zorzi Builders and MMA Interiors who openly embrace automation technologies in their home designs, a convenient, time saving, energy efficient, security conscious and simple automation solution was devised to enhance the busy family lifestyle of the client.

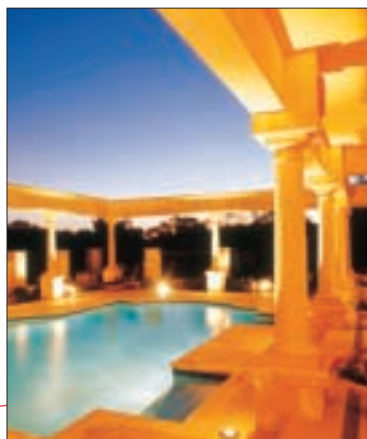
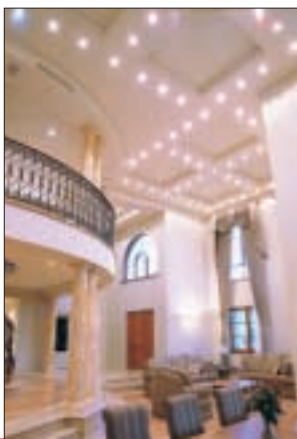
The Requirements

Faced with meeting the requirements of a hectic family lifestyle, the automation system installed needed to take advantage of all the benefits this sort of technology can provide.

Due to the size of the home and many circuits employed, an intelligent lighting control system was needed to provide an effective means of managing the lighting circuits. There was also a necessity for a system that would allow for seamless integration of the security and other sub systems throughout the home.

With many hallways and stairs located in the home, the provision of multi-way switching was required without the messy hardwiring involved in conventional multi-way switching. In addition, to achieve a uniform look there was also the need for all switches, power points, phone, TV and data outlets to match aesthetically.

With these requirements in mind, C-Bus was selected.

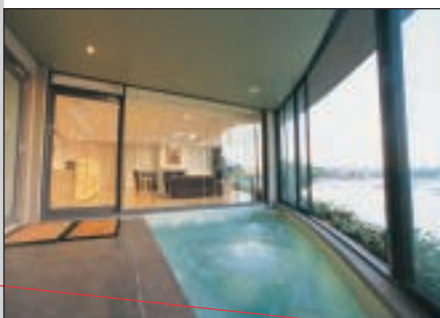
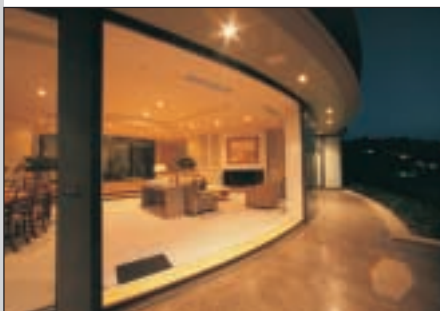




Systems Integrator Electronic Environments, created a spectacular ambience inside the home to complement its breathtaking views of Sydney Harbour.

SMART BUILDING

Acceleration in the take-up of automation technologies is sending a clear message to architects and electrical consultants - take an interest in these new technologies by teaming up with systems integrators now, or risk facing a future of missed opportunities.



Growth in the home automation industry has been swift. According to a recent Internet Home Alliance survey on US homeowners' attitudes towards automation, 42 per cent of US households are inclined to adopt a connected home and in 1997, CEMA Market Research found that 15 per cent of American homes already had some level of automation. Judging by these overseas trends, it's short-sighted to believe that knowledge of automation technologies is unnecessary. They already have a heavy presence in the commercial and high-end residential markets in Australia and as consumer awareness increases, there is little doubt that architects and electrical consultants will be called upon to provide these intelligent building solutions.

As with all high technology areas, the rate of change of available products, systems and solutions for smart buildings is rapid. Developers, architects and consultants will find it challenging to keep up-to-date with the relevant technology to ensure their client's short and long term automation needs are met. For this reason, the systems integrator has been added to the building equation.

Systems integrators are technology specialists who are experienced in designing and implementing smart building solutions and have a broad knowledge of the available automation technology. They are trained in every aspect of automation, from project

analysis and design to installation and commissioning. It is the integrator's responsibility to ensure the client, architect and consultant are aware of all the automation options available, which meet the individual requirements of each project.

Neil Rizzo, an engineering consultant and director of RIZ Engineering in Sydney, has been specifying automation products in projects for over five years. Automation now comprises 15 per cent of his current business and he is a strong advocate of Clipsal Integrated Systems (CIS) products, having commissioned CIS C-Bus, HomeMinder and Starserve.

"I think it's great to have the ability to switch lights on and off from not only a local area, but another area of the house" he said.

Neil has worked on projects where the C-Bus wiring system has been integrated with countless other systems including security, air-conditioning, pool pumps, motorised blinds, motorised sky lights and rain sensors, floor heating, irrigation, smoke alarms and home theatre systems. He is impressed at the functionality and flexibility a system such as C-Bus offers.

"If you need the functionality of two, three, four or five way switching, it's very difficult to achieve with a conventional wiring system," Neil said.

"Also, with a conventional system you can only dim at one end, but automation allows you to dim at two separate points.

"Most architects are big on lighting and the flexibility of C-Bus in this respect is one of its strong points."

Neil has developed strong relationships with many of the integrators he has worked with, particularly Gary Sayer from Electronic Environments. The pair have formed an enjoyable working relationship after teaming up on numerous projects, and Neil has a great deal of respect and confidence in the knowledge and expertise Gary brings to the association.

"Working with Gary has been quite good," he said. "All the integrators I've worked with are very knowledgeable."

"If the integrator suggests something, I listen."

Initially experimenting with automation as a hobby, Gary Sayer has turned his interest into a profitable business. His company, Electronic Environments, has been in operation for eight years and is involved in mostly residential projects as well as commercial energy management projects. After dealing with the widespread



scepticism and resistance they faced in their early days of operation, Gary is encouraged by the rate at which automation is now being accepted.

"We don't advertise. We never have," he said.

"We've grown our business through word of mouth."

But Gary is the first to admit that infiltrating the architect/consultant market has been difficult.

"When I first went into automation, people thought I was crazy," he said.

"But the benefits have been proven. It's no longer early days and if it's not being included, it's not going to take them through to the future.

"More consultants are becoming aware of this purely from a survival point of view."

Like many systems integrators, Electronic Environments are proactive in their campaign to raise awareness amongst architects and electrical consultants. Electronic Environments conduct mail out presentations, information evenings and will even carry out personal presentations if requested. Systems integrators place great emphasis on end-user satisfaction and concentrate on involving the client in the decision making process to ensure their automation goals are met.

As for the cost, Gary recommends that if keeping to a budget is a concern then the client should pre-wire the building with C-Bus even if they don't go all out with automation.

"If we do part of a house and a client rings us five months later asking to add something, then it ends up costing them double," he said.

"It's important that they layout the wiring infrastructure during construction, so when they do need to manage the commodity, the basework is there.

"We usually design a system so it can be added on to but we'll often find that once you start explaining what you've done in other projects, then all of a sudden it becomes quite economical to do it all at once."

Gary's prediction for the future and the take-up of automation technologies is promising.

"If we see the growth rate increase like it has overseas, I can see that within five years 60 per cent of new homes should have automation and within 10 years 80 per cent," he said.

Gary is so confident in the capabilities and prospects of automation technologies that he has invested a substantial amount of his own funds into the company. He encourages architects and electrical consultants to do the same and begin investing part of their initial resources into automation.

"Have a bit of faith. Think of reintroducing a bit of fun back into the client's life," he said.

"We have fun installing it and the client has fun using it.

"Once you live with the technology, you can't go back."

Director of Architektonic in Melbourne, Joburt Betadam, has a keen interest in

automation technologies and began specifying it one and a half years ago when he heard about Clipsal's Australian-made range of intelligent electronic products.

"I've known that European manufacturers of automation products exist, but my first impression was that they were complicated, very expensive and service wise, a bit thin in Australia. Hence, my reluctance to use it," he said.

"When I became aware of CIS, I was impressed by the "wizz-bang" factor of automation so I decided to put my money where my mouth was and implemented it in my own home."

Joburt mainly specifies C-Bus in office buildings but is eager to nominate it on any project large enough to justify the cost.

"Everything that C-Bus offers is an advantage over conventional wiring," Joburt stated.

"If you have C-Bus, you can do so much more."

Based on his observations and feedback from clients, Joburt's predictions for the future of automation are also optimistic.

"I think it will become more and more popular in the housing market," he said.

"With energy saving becoming a major issue, I think it will be even bigger in the commercial market particularly with the reduction in both energy costs and the environmental impact."

Joburt is also confident that the provision of automation services will be seen as an asset by clients searching for an architect with an edge. Someone who will give them the best building solution possible because they are aware of the latest technologies and teaming up with specialists who are specifically trained in providing customised smart building solutions.

"People are looking for that differentiator. I see C-Bus as a differentiator."

We needed to make a hip switch.

We needed something à la mode.

We needed help.

We're big enough to admit when we need a few fashion tips. And we wanted our new neo switch to be really cool.

Yes, neo needed to be integrated with our C-Bus automation technology, but it had to look the part too. So we enlisted the help of a few friends. Several top architects and designers, in fact. We think they did a great job.

You'll notice the lines are smooth and balanced so that neo rests modestly on walls of any kind. The colours neo is wearing here are modern, but easily interchangeable with others in the range (just in case your clients aren't as hip as us designer types).

Anyway, what we like most about neo is that it's made for C-Bus. And, thanks to the modular design, it can hold up to eight switches without detracting from the style. neo can be controlled with an infra-red remote too.

So you see, we've had some excellent advice. Now we just have to work on our ties.



neo
face the future



To learn more about neo contact the Clipsal Brochure Line for a complimentary neo brochure on 1300 725 547 or visit www.clipsalneo.com

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INTEGRATED SYSTEMS