

Case Study

4400sqm Residence with 44 Audio zones and 32 Sources

Canham Residence - Brisbane

SCOPE OF WORKS

- 4400sqm of floor space
- 44 Audio Zones
- 32 Audio Sources
- Single cat 5 distributing all audio & control
- All sources available in all zones
- No Audio Loss

The Project

Residential Monster

With the average size of an Australian home just above 245 sqm in floor space many readers may gasp for breath while contemplating the enormity of this beautiful home in Brisbane tipping the scale at over 4,400 sqm of internal floor space. This monster located in the southern suburbs of Brisbane took nearly 3 years to construct and is valued at over AUD\$10 million.

Project Requirements

'A music system for a few rooms throughout my home' was the somewhat innocuous brief initially given by the client. Further discussion rapidly expanded this into the need to distribute quality audio from 32 separate sources to 44 rooms and entertaining areas in this mansion. Paramount was the ability for occupants to listen to different sources in different areas of the home at the same time, also known as multi-zone. An overriding need for the system was efficiency; cost, cabling and control and AXA DESIGN had just the ticket.

The Solution

The solution was to implement an AXA DESIGN Ethernet audio distribution system integrated with the Philips Dynalite energy efficient lighting control system. If a more 'traditional' audio distribution system had been used for this home, the sheer volume of cable would have been far more impressive than the size of the home. The loss of audio quality that a typical system of this size can inherently have, added further cause to finding a smarter alternative. There is simply none smarter than a system that distributes 32 separate sources to 44 zones with no loss of audio using just one standard run-of-the-mill CAT-5 cable. This reduced the cabling costs to an absolute minimum.

Aesthetics were important for the client; hence the need to avoid a plethora of wall mounted keypads throughout the home just to control the music system. By using the existing Dynalite lighting control keypads to also operate the music system, not only were multiple system control panels next to each other on the wall avoided but, an added level of functionality and system intelligence was achieved. An example of this is the owner's ability to turn off the entire music system, all lights and fans simply by arming the security system as they walked out the front door - no need to search for a remote control or remember which rooms still had lights on and music playing. The Dynalite keypads and remote controls operated the sources, volume and also adjustment of sound settings for each room using a 7-band parametric EQ dedicated to that individual zone.



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The Solution (cont.)

In total 4 equipment points for sources, such as CD player etc, were strategically positioned throughout the home to provide easy access for the occupants and all of these locations were linked via the one data network for full functionality and integration.

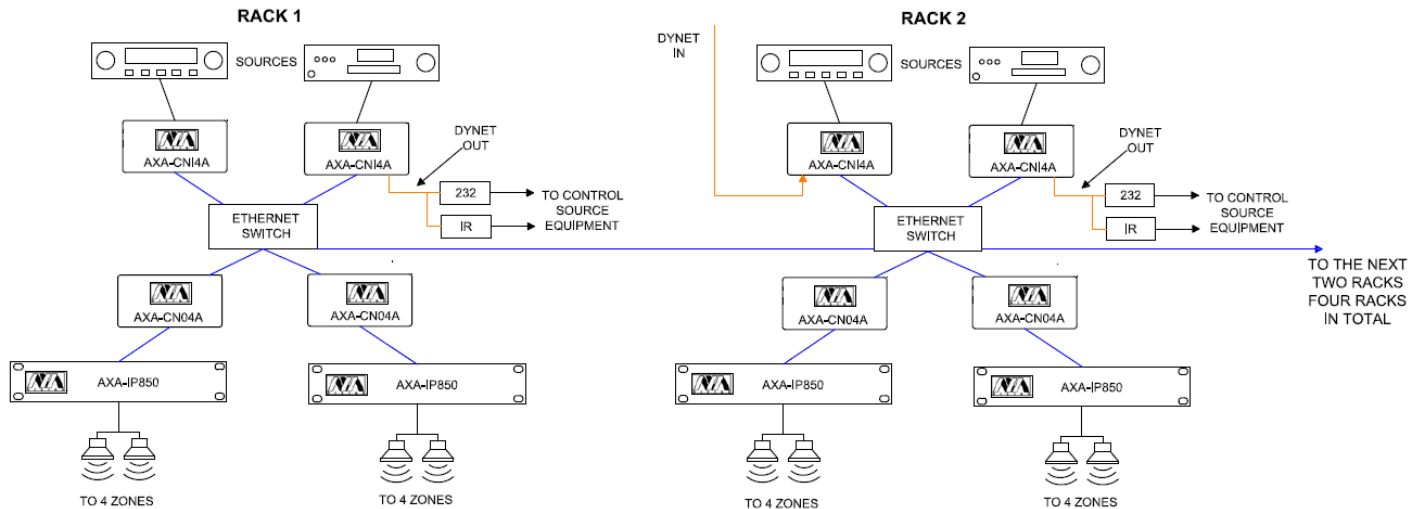
Key Outcomes

The final result was an easy to use, highly cost effective music distribution system that enabled occupants to listen to different lossless music with no interference, different sources in different areas at the same time, controlled by remote, keypad, or automated with other systems. The quality of music playback was fantastic. Successfully negating any potential losses or interferences which in itself is a significant feat given the size of the home and the distances that this represented.

What was used?

- 8 x AXA-CNI4 audio to Ethernet devices
- 11 x AXA-CNO4 Ethernet to audio devices
- 11 x AXA-IP850 power amplifiers
- 6 x AXA-Dyn/232 RS232 control interfaces
- 2 x AXA-IR8 infrared control interfaces
- 3 x AXA-POD iPod interfaces
- 14 pairs AXA-PC6.5 flush-mounted speakers
- 26 pairs AXA-PC8 flush-mounted speakers
- 4 x NETGEAR FS608 Ethernet switches

EXAMPLE OF AUDIO LAYOUT



Solution Provider

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