amillan
Technology & Services Partner

CONSTRUCTION CASE STUDY

DIGITAL BUILDING INFRASTRUCTURE

# EQ Bristol

Integrated Network Infrastructure, Converged Networking and Audio Visual Technology

PROJECT: EQ BRISTOL

**THE INFRASTRUCTURE BEHIND BETTER-CONNECTED BUILDINGS**

STRUCTURED CABLING | NETWORKS | SMART-BUILDING CONNECTIVITY | ONGOING SUPPORT

## Project Overview

Amillan was appointed to deliver the network infrastructure and Converged Network Solution (CNS) for EQ Bristol, a landmark commercial development at 111 Victoria Street in the heart of Bristol city centre.

Developed by CEG and constructed by BAM Construction, EQ provides approximately 200,000 sq ft of high-quality office accommodation, together with around 20,000 sq ft of amenity space. The development incorporates a rooftop bar and terrace, restaurant, business lounge, auditorium, fitness facilities and extensive cycle provision.

Designed with sustainability, wellbeing and technology at its core, EQ was developed as a highly connected, digitally enabled workplace, with smart building technology forming an important part of the overall building strategy. The development achieved WiredScore Platinum and was designed to support a wide range of intelligent building systems.

Against this backdrop, Amillan's role was to provide the resilient communications infrastructure and CNS required to support the building's operational technology and connected services.

## The Challenge

A modern commercial development such as EQ depends on reliable connectivity far beyond the traditional corporate IT network.

Numerous building systems need to communicate across a common infrastructure, creating a requirement for a network that is secure, resilient, scalable and capable of supporting multiple technologies and stakeholders.

For Amillan, the challenge was therefore not simply to provide connectivity. The network needed to form part of the building's critical technology infrastructure and provide a dependable platform capable of supporting the ongoing operation and management of the development.

The installation also needed to be delivered within a major construction programme, requiring close coordination with BAM, the M&E teams, technology specialists and other contractors working throughout the building.

## Amillan's Solution

Amillan delivered a comprehensive network infrastructure and Converged Network Solution, creating the digital backbone required to connect and support the building's technology systems.

The solution brought traditionally separate building services onto a managed IP network architecture, reducing the need for multiple independent networks and providing a more efficient and manageable approach to building connectivity.

The infrastructure was designed around the key principles of:

- Resilience – helping maintain connectivity for critical building systems.
- Performance – providing the capacity required by modern IP-based technologies.
- Security – enabling different building systems and services to operate securely across the shared infrastructure.
- Scalability – allowing the network to accommodate future technologies and changing requirements.
- Manageability – providing a structured platform that simplifies ongoing network management and support.

## Supporting the Smart Building

The CNS provides the secure digital building infrastructure required for IT services, operational technology and multiple intelligent building systems. Network segmentation allows these services to use a converged building network while maintaining appropriate separation, resilience and performance.

By consolidating compatible services onto a common architecture, the solution enables controlled IT and OT convergence and provides a scalable foundation for IoT devices, building-management systems and future connected technologies.

This approach is particularly important at EQ, where intelligent systems, environmental controls and occupant experience platforms contribute to more responsive, data-driven building operations.

The wider development incorporates technologies including intelligent lighting, visitor management, contactless access, destination-controlled lifts, building and community applications and Wi-Fi throughout communal areas.

Amillan's infrastructure provides the robust network environment needed to support the increasingly connected nature of the modern workplace.

## Working Within the Construction Programme

Successful delivery of a CNS within a major construction project requires more than technical expertise.

Amillan worked closely with BAM, the MEP teams and technology specialists throughout the programme, coordinating the CNS design and installation interfaces with the building-services packages. This included aligning network availability, equipment locations and commissioning dependencies for the connected systems.

This coordinated approach allowed interfaces between the BMS, intelligent lighting, access control, CCTV, visitor systems, Wi-Fi and other technologies to be identified and managed before commissioning. It also ensured the shared network infrastructure was available as each package progressed towards testing, handover and operational use.

Inspection, configuration, testing and commissioning formed part of a structured assurance and handover process, helping establish a stable platform for the building's connected services and subsequent managed support.

## Audio Visual Solution

Amillan successfully completed the AV solution, delivering a comprehensive and modern audiovisual environment tailored to the client's operational requirements.

Within the auditorium, Amillan installed a large-format display solution, providing high-quality visual presentation capabilities for meetings, presentations and events. A professional speaker system was deployed to provide clear and consistent audio coverage throughout the space, alongside an integrated video conferencing solution supporting seamless collaboration between on-site and remote participants.

Amillan also delivered a complete AV solution across the café, reception, fitness studio and terrace bar. This incorporated a zonal audio system, enabling music and announcements to be independently controlled across different areas of the building.

The scope included system design, installation, configuration, commissioning and user training, providing the client with an intuitive and reliable AV environment fully aligned with the wider technology solution.

**AMILLAN PERSPECTIVE**

> "EQ Bristol is a strong example of technology being considered across the complete building lifecycle. We delivered the digital foundation for its connected systems and continue to support the environment through proactive monitoring, maintenance and technical assistance after commissioning."
>
> **— Patrick Daly, Managing Director, Amillan**

## The Completed Solution

The completed solution provides:

- Robust structured cabling infrastructure forming the physical foundation of the building's technology systems.
- High-availability internet connectivity configured with Active/Standby failover and utilising RAO2 Diverse Plus diverse routing to maximise network resilience.
- High-availability firewall infrastructure safeguarding critical network services through automatic failover and redundancy.
- A resilient Converged Network Solution (CNS) supporting multiple building systems over a common managed network infrastructure.
- Comprehensive Wi-Fi coverage throughout public areas, including a secure and intelligent guest Wi-Fi platform providing seamless visitor connectivity, user authentication and analytics.
- A fully integrated audio-visual solution incorporating large-format displays, professional audio, video conferencing and zonal audio across key communal spaces.
- UPS protection safeguarding business-critical technology systems and helping maximise availability and operational uptime.
- A scalable technology infrastructure capable of supporting future expansion and changing operational requirements.
- A coordinated technology solution successfully delivered as part of the wider construction programme.
- Ongoing managed services and technical support across the ICT, network and AV systems installed by Amillan.

## Managed Services & Ongoing Support

Amillan's involvement at EQ extends beyond the initial design, installation and commissioning of the technology infrastructure.

Following completion, Amillan provides comprehensive managed services and maintenance support across the installed ICT, network and AV solutions, helping ensure that the building's technology remains operational, secure and optimised throughout its lifecycle.

The service includes proactive monitoring, preventative maintenance, technical support, fault diagnosis and resolution, software and firmware updates, and ongoing technical assistance. This provides the client with a single point of expertise across the technologies delivered by Amillan.

This lifecycle technology-management relationship helps maintain performance, availability and security, enables potential issues to be identified and addressed quickly, and provides specialist support as the building's operational technology and user requirements evolve.

## The Result

Amillan successfully delivered an integrated technology solution for EQ Bristol, providing the development with resilient network infrastructure, a scalable Converged Network Solution and a comprehensive audiovisual environment designed around the requirements of a modern smart building.

From structured cabling and resilient connectivity through to converged networking, Wi-Fi, security, AV and ongoing managed services, the project demonstrates Amillan's ability to bring multiple technology disciplines together within a single coordinated delivery and support model.

The completed solution provides EQ with a secure, resilient and scalable technology environment capable of supporting the building, its operators and its users as requirements continue to evolve.

For Amillan, EQ is a strong example of our ability to design, deliver, commission and support critical technology infrastructure within complex, high-profile construction environments.

**CUSTOMER PERSPECTIVE**

> "Amillan brought together the network, connectivity, security and audiovisual requirements within a coordinated technology solution. Its continued involvement through managed services gives us access to a team that understands the installed environment and can help maintain its performance as the building's requirements evolve."

# Project at a Glance

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| **Project** | EQ Bristol |
| **Location** | 111 Victoria Street, Bristol |
| **Developer** | CEG |
| **Main Contractor** | BAM Construction |
| **Sector** | Commercial / Smart Buildings |
| **Development** | Approx. 200,000 sq ft office accommodation plus approx. 20,000 sq ft amenity space |
| **Amillan Solution** | Structured Cabling, Network Infrastructure, Converged Network Solution (CNS), Resilient Internet, HA Firewalls, Wi-Fi, Audio Visual, UPS & Managed Services |
| **Key Requirements** | Resilience, security, scalability, building systems connectivity, user experience and long-term manageability |

## The Amillan Difference

At EQ Bristol, Amillan brought network infrastructure, converged building connectivity, Wi-Fi, security, audio visual technology and ongoing managed services together within one coordinated delivery and support model. This reduced fragmentation between technology disciplines and gave the project team a clear point of accountability.

Amillan combined smart-building expertise with construction-programme coordination, structured commissioning and lifecycle support. The result is not simply an installed network, but a resilient digital foundation that can support connected building systems, operational technology and changing user requirements over the life of the development.

- One coordinated technology delivery and support model
- Construction-aware coordination across building-services interfaces
- Commissioned, documented infrastructure ready for operational use
- Ongoing managed services supporting performance, resilience and future change

**LET'S TALK ABOUT YOUR NEXT CONSTRUCTION PROJECT**

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