

CASESTUDY

# “The Walkie Talkie” | 20 Fenchurch Street, London – UK

## ABB Cylon® BACnet Offers Openness and Ease of Integration



Joint Canary Wharf Holdings and Land Securities development project.

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01 “The Walkie Talkie”  
20 Fenchurch Street,  
London – UK

### Projekt Overview

Designed by architect Rafael Viñoly and costing over £200 million, 20 Fenchurch Street features a highly distinctive top-heavy form which appears to burst upward and outward.

A large viewing deck, bar and restaurants are included on the top three floors; these are, with restrictions, open to the public.

Because of its distinctive shape it was nicknamed the ‘Walkie-Talkie’. At 160 meters in height and a familiar addition to the City of London skyline, the ‘Walkie Talkie’ comprises of 37 floors (including 3 storey sky gardens) and a floor area of 62,100 m<sup>2</sup>.

### Solutions Benefits

By utilising a Tridium Niagara, Jace, ABB Cylon® Solution, the building offers a full open protocol solution providing incoming tenants with the opportunity to install their preferred BACnet control solution on a floor by floor basis.

As an open protocol, BACnet promotes integration across other manufacturer’s platforms and systems to give a total integrated control solution. The

### Project Summary

Applications:	Cooling, Heating, Air Handling, Monitoring, Metering
Number/Type of Building:	Multi-tenant commercial office building over 37 floors, 62,100 m <sup>2</sup> .
Network:	BACnet® IP, BACnet MSTP
ABB Cylon® Hardware Installed:	CBR, CBR/MOD, CBT12, CBM
Project Completed:	2013

ABB Cylon® BACnet solution is highly flexible and can be easily extended, allowing for the addition of new functionality and the ability to create new object types.

**Flexible Design** – the high level of configurability of the ABB Cylon® system enables the building owner to accommodate multi-tenants’ requirements very quickly and with minimum cost.

“Highly flexible, easily extendable, ABB Cylon® BACnet also allows for straightforward expansion or upgrades to the BEMS that may be required in years to come, future proofing today’s BEMS installations.”  
Graham Milward, Director, Eton Associates Ltd.

### **ABB Cylon® Solution**

The Shell and Core for the building was installed utilising ABB Cylon® main plant controllers (CBM).

The fit out of the floors consisted of the installation of Fan Coil Units. In excess of 50% of the fitted out floors have ABB Cylon® unitary controllers (CBT12) employed on the Fan Coil Units. These are all accessed via the BACnet Head End.

The CBT12 is a fully programmable Unitary Controller which is a native BACnet Advanced Application Controller (B-AAC). This native BACnet controller is a truly open solution for the most demanding of applications. ABB Cylon® BACnet controllers offer unparalleled flexibility and performance on an open platform.

The system can easily be extended by adding best of breed 3rd party devices on the same BACnet MS/TP network.

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