



Buckingham county council road authority (TfB) is responsible for all things in regards to the highways & byways of the Buckinghamshire county area, including but not limited to road maintenance, new road construction & planning, public transport, gritting, street lighting, signage & traffic signals.

Aylesbury Town & surrounds has a population in excess of 70,000 people and is the main business hub for the area. Major roads that serve Aylesbury for commuters from the local area and further out include A413, A418 & the A41.

When the County Council decided to transform the commercial waste side of the site over to an automated in/out check-in & weigh bridge they required a low latency, medium to high capacity link from the site on to the council network.

The problem encountered by the council was due to the rural location of the site. The initial quotations from traditional fixed circuit providers had high installation charges for digging in new infrastructure as the site was out of the main population area and set far back from the highway/road & surrounded by parkland & forest on 3 sides.



Rapier was engaged by our partner, Telindus (UK), to perform a site survey to ascertain the viability of a wireless solution.

Once a desktop evaluation was completed (which helps to ensure the customer's time and money is not wasted), a full physical survey was completed. The final solution required the use of two point – to – point wireless links to connect the Waste Management Centre to a local High School, which had an existing fibre connection onto the County Councils Backbone infrastructure.

As a direct link was not found to be possible, a non-direct system was necessary. The midpoint (Hop) location was an existing street lighting column with good LOS (Line Of Sight) to both required locations.

The Council have saved money on the large initial excess charges involved in laying fibre from traditional fixed line service providers and on the ongoing yearly rental costs.

The council have a much higher capacity link than they could have obtained from the traditional providers. The installation was completed within 3 weeks of the initial requirement being brought to our attention which has allowed the customer to progress with their plans without the concerns of completion dates or issues arising from trench digging & the disruption caused when laying ducting for cable solutions.



About Rapier Systems

Formed in 2003 Rapier has unrivalled expertise in the design, delivery and support of wireless (including WiFi) networks and systems; the company is a value added integrator of best-in-class wireless products.

Whether within or between buildings, upgrading or replacing existing networks, or designing and installing new wireless systems, Rapier's experience in environmental analysis and network design ensures complete coverage and optimal performance.

Rapier works with world leading wireless system vendors, including Ruckus, Alvarion, Airtight, Cambium/Motorola, Ceragon, SAF Technika and several more. The company has reached the highest level of accreditation with each of its partners and understands which vendor and product is best suited for each environment.

Rapier has grown dramatically on the back of a surge in demand for wireless networks, which it has designed and installed in a wide variety of challenging environments from colleges and oil rigs to business parks and theatres.

Rapier maintains Scotland's largest Wireless Network, covering Dundee City, Angus and Perth & Kinross Councils, which comprises around 250 sites.

The company has designed and delivered some of the most innovative wireless solutions in the UK, including the largest metropolitan area wireless network in Scotland and one of the largest county-wide wireless networks in England. Rapier delivered the 1st fully licensed Gigabit wireless link in the UK.

The company's headquarters is located in Fife, Scotland and it has offices in St Neots, Cambridgeshire, England.

Rapier has a UK wide customer base in sectors that include Local Government; Transport, Renewables, Oil and Gas, Retail and Leisure.

For further information please visit www.rapiersystems.com

