



## Stockton-on-Tees BOROUGH COUNCIL

Stockton-on-Tees Borough Council are a local authority in the North East of England with an estimated Population of 192,400 and consists of the larger conurbations of Stockton-on-Tees, Billingham, Thornaby-on-Tees, Yarm & Ingleby Barwick.

The Borough Council has used their IP infrastructure partner NextiraOne for several years and Rapier Systems have in turn been recognised as NextiraOne's preferred wireless partner, based on our unrivalled expertise.



In 2009 Stockton-on-Tees Borough Council in collaboration with NextiraOne were looking to connect Billingham Community centre onto the Council Network. The connection had to be circa 100Mbps & reliable.

After a successful initial deployment, Stockton-on-Tees Borough Council & NextiraOne have frequently engaged Rapier to perform further Desktop analysis & quotation for potentially viable future links in and around the Borough.

The benefits the client liked were the rapid deployment of the selected systems, allowing connectivity to be installed within weeks of order as opposed to months with the traditional fixed line providers.

Rapier was engaged by NextiraOne to produce a solution that would fit the initial requirement. Rapier performed Desktop link analysis using profiling tools to get an accurate picture of the link distance & terrain.

Once satisfied that the customer's time or money was not being wasted, a complete LOS (Line of Sight) survey, including the use of active equipment to accurately gauge the available bandwidth achievable was conducted.

Once the report was completed the link was ordered and installed.

Since the initial installation, Rapier have continued to install high capacity, reliable PtP (Point to Point) wireless WAN links for the council & NextiraOne.

Rapier have also helped by re-deploying equipment already installed to other sites as and when the council required, usually due to site leases expiring or uses being changed. Over the years many pieces of equipment have been temporarily removed and stored for re-use, when buildings have closed for re-fits / renovations etc and are often re-connected within twenty-four hours of us being contacted to do so.

The Council have made large savings on their network infrastructure spend, by maximising their investment in wireless technology on both the upfront (capital) to the on-going (operational) costs versus those of the traditional fixed line circuits.

Installation times to connect & allow the council to add new sites or upgrade old sites to the council network have been greatly reduced with the added benefit of being able to re-deploy equipment that they had already purchased to serve new uses as the Council evolves and changes.



Five links are currently installed all using the unlicensed 5.4/5.8GHz frequency band from different manufacturers, with speeds ranging from 50Mbps up to 230Mbps. We believe that due to the nature of the benefits being enjoyed, the council will be considering more.

## 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](http://www.rapiersystems.com)

