

Transmission Services



4site is a design-led company with a vision to design the network infrastructure of tomorrow. Founded in 2002, the company continues to grow year on year with offices in Reading, Dublin and Limerick.

The ever growing consumer demand for data hungry mobile devices such as smart phones, tablets & portable PCs/laptops mean that the demand for data traffic is continually increasing on mobile networks globally.

With the ongoing development & enhancement of 3G (UMTS), along with the deployment & evolution of 4G LTE Networks the demand for higher capacity transport platforms (Microwave transmission Links & Optical Fibre Nodes) is continually increasing.

Existing Microwave back haul link capacity requirements need to be upgraded & enhanced along with increased Optical Fibre deployment in line with the deployment of better performing Base Stations (BTS), designed to provide the capacity required to meet the demands of Mobile /Cellular data consumers.

Generally the existing TDM links are progressively swapped for IP microwave links which are adaptive to fluctuating &

increasing traffic volumes during peak usage demand periods.

Optical Fibre Rollout is also becoming more Prolific within Mobile /Cellular Networks as Optical Fibre has fewer limitations than Microwave links.

Intelligent network design is crucial to successful network upgrade implementation.

4site Transmission Solutions

4site offers a range of services that complement the transmission requirements of the Mobile/Cellular Network topologies through interaction with our clients & equipment vendors.

4site Transmission Solutions department ensure that the original transport network upgrade to the newer increased capacity transport infrastructure networks is switched over seamlessly, with minimal impact to existing live traffic, whilst achieving the operators desired enhanced capacity requirements that will serve the growing demands of the consumer into the future.



Transmission Services

- Microwave TX Link Planning
- Site specific surveys for Microwave Transmission Links &/or Fibre Node deployment @ multiple TX ingress sites (POC Sites).
- Line of Sight (LOS) Surveys to prove LOS can be achieved between two candidate locations utilizing existing structures & new 'greenfield' sites.
- Cost of equipment and cost benefit analysis including equipment maintenance
- Bill of Materials (BoM) including consumables:
- Required equipment, spares, maintenance & test equipment including availability of Required Items.
- Installation/Rigging
- Integration & Commissioning
- Optimization
- Traffic Migration
- Troubleshooting / Problem solving
- Link Test Results
- Hand over documents (HODs)
- Decommissioning

Expertise and experience

4site have gained vast experience and expertise in the transmission solutions environment over the past 13 Years whilst working on transmission projects, both Microwave (Wireless) & Fibre deployment solutions for Tier-1 Operators in the UK and Ireland.

4site Transmission Projects UK & Irl

We have undertaken wireless and fibre deployments on the following networks:

- Vodafone (UK & Irl)
- O2 (UK & Irl)
- Meteor
- H3G (UK & Irl)
- Everything Everywhere (EE)
- SIRO

4site Transmission Solutions Department consists of a team of well educated and professional staff who are highly trained in Transmission Solutions across a wide spectrum of transmission equipment vendors including but not limited to

- Ericsson
- Siemens
- Nokia
- Huawei
- Ceregon
- Samsung
- Tellabs
- Marconi
- LCC Wireless
- Alcatel
- Fujitsu
- NEC

Contact us

Feel free to contact us anytime!

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