



Ireland's largest provider of high quality maintenance services for Microwave Wireless and a leading provider of Cisco voice, video and data solutions.

### PROJECT OVERVIEW

**Customer Name:** Fingal County Council

**Industry:** Government

**Location:** Ireland

#### Challenge

- County Wide Network Support

#### Solution

- Exigent Managed Support Contact

### TESTIMONIAL

*"Fingal County Council have been using SAF Tehnika licenced microwave radio equipment for over 4 years to deliver increased capacity to a large number of our remote sub offices across the County. Their radio's have proved to be very reliable in the delivery of our licenced wireless network requirements and we now use their 17GHz licence free product for our short distance high capacity requirements. These cost effective radio's have provided us with 100Mb/s full duplex capacity to a number of our sub offices replacing older 5Ghz radio links and DSL circuits which were no longer sufficient for delivering our increasing data demands."*

**Fergus Healy**

IT Infrastructure Manager

Fingal County Council

#### Project Details:

Fingal County Council is a municipal organization providing more than 500 services to businesses and residents throughout the local area, including housing, environment, planning, leisure, libraries, water, roads and economic development. Initially the Council deployed SAF Tehnika 34Mbp/s PDH radio links to a number of offices which are still in operation today. SAF Tehnika was chosen for this project because of their proven track record of successful licenced radio deployments for the Council and their early adoption of the 17 and 24GHz licence free frequencies.

#### About Exigent Networks:

Exigent Networks is one of Ireland's leading providers of information and communications technology (ICT) solutions and the largest provider of microwave radio solutions to Irish Local Authorities. Exigent provide the architecture, deployment, integration and management of networks and systems to deliver leading edge networking solutions for our customers. Our commitment to customers is to provide unparalleled customer service and expert technical advice to ensure that clients get the most of their infrastructure investment.

#### The Challenge:

Fingal County Council were being faced with increased capacity demands from remote offices such as Libraries, Water Services and Civic Amenities. The existing cable operators could not provide the required capacities for optimum connectivity to the Council network at a price point acceptable to the Council. To meet this challenge the Council decided over 3 years ago to build their own high capacity wireless network to service the network demands at these offices.



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### The Solution:

As wireless technology has developed, Exigent Networks provided the Council with the latest IP based SAF Tehnika licensed radio links. With the addition of 17 and 24GHz licence free point to point radio links to the SAF Tehnika product portfolio, this has allowed the Council to deploy 100Mbps full duplex radio links at very competitive costs without the requirement of a licence from ComReg. As these licence free radios are built as a carrier grade solution and have a very narrow point to point beam, Exigent Networks had no problem advising the Council to deploy this solution as there is very little chance of interference similar to what is being experienced in the 2.4GHz and 5GHz frequency ranges.

### SAF FreeMile HIGHLIGHTS:

- Licence Free 17GHz and 24GHz ISM band radio for Ethernet traffic and E1/T1 voice transmission (TDM traffic)
- Carrier grade full duplex capacity 100Mbps + 2E1/T1
- Hitless modulation switching (ACM) feature ensures high availability even at poor weather conditions
- Easy configuration from web interface and up-to-date network management over SNMP protocol
- Radio polarization sensor for easier installations
- RF spectrum analyzer

### Equipment

- SAF Freemile, 7 links

### Link Distances:

- from 700m to 7 km

### Capacity of New Links:

- 100Mbps Full Duplex

### Frequencies:

- 17 GHz and 24GHz

### Services:

- Ethernet

### Antennas:

- 30 and 60cm



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