

# Waterford City & County Council

## Case Study

**YOUR NETWORK  
OUR VISION**



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:**

Waterford City & County Council

**Industry:** Government

**Location:** Ireland

**Challenge**

- County Wide Network Support

**Solution**

- Exigent Managed Support Contact

**Project Details:**

**About Waterford City and County Council:**

Waterford City Council was the authority responsible for local government in the city of Waterford in Ireland. Waterford County Council was the authority responsible for local government in County Waterford, Ireland. The city and county council's are responsible for housing and community, roads and transportation, urban planning and development, amenity and culture, and environment.

In late 2012, the Minister for the Environment, Community and Local Government Phil Hogan announced the proposed merger of Waterford County Council and Waterford City Council. Both authorities were abolished in June 2014 when the Local Government Reform Act 2014 was implemented and were succeeded by Waterford City and County Council.

### TESTIMONIAL

*"Exigent networks are a trusted partner in the support of our LAN/WAN infrastructure, in particular our extensive wireless network across City and County. The team are knowledgeable, responsive and give an excellent service. They have never let us down and I would have no hesitation in recommending them."*

**Anthony McElroy**

IT Manager

Waterford City & County Council

**About Exigent Networks:**

Exigent Networks is one of Ireland's leading providers of Information and Communications Technology (ITC) solutions, it is also the largest provider of microwave radio solutions to Irish Local Authorities.

Exigent currently provide services to Waterford City Council, Fingal County Council, Galway County Council, Cork City and County Council, Dun Laoghaire Rathdown County Council as well as GlaxoSmithkline, Waterford Wedgwood and Kelloggs.

Exigent Network's 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 our clients get the most of their infrastructure investment.



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### The Challenge:

Waterford City and County Council both had very large local and wide area networks connecting to their independent data centres located in Waterford City and Dungarvan. The data centres servers hosted the information for both authorities independently at each location. Each data centre had resilient connectivity to Government networks.

The proposed merged entity had a requirement to securely connect both data centres with high capacity connectivity while continuing to provide services to over 50 remote public sector sites around the city and county, and also maintain resilient failover connectivity to government networks.

### The Solution:

To overcome this challenge Waterford Council awarded Exigent Networks with a contract to supply, install and support a new high capacity wireless wide area network (WAN) link between Dungarvan and Waterford City. To deliver this solution we needed to design a radio path to deliver 400Mb uncontended connectivity over multiple hopping points between the locations and seamlessly integrate the local and wide area networks and at both locations.

The Network is designed using a combination of Microwave radio links providing bandwidths up to 531Mbps over a single link, full Layer3 redundancy on the network core was achieved using dynamic routing protocols and VPN technologies to ensure no network outages in the event of any device failure on the network.

The Network is designed with the following technologies: Ceragon Microwave links: Licensed microwave radio backbone using Ceragon Networks IP10 radio links providing capacities from 10 – 531Mbps over a single licensed microwave link. Eltek SAF Freemiles: 17GHz unlicensed radio links delivering 30 & 100Mbps on distance upto 15Km

Pat Downing, Head of Wireless Sales at Exigent Networks states: "The high capacity wireless Wide Area Network link will provide the newly merged local authority with enough bandwidth to deliver all current and future application needs between the data centres while also integrating all existing local and wide area network sites previously connected independently to the data centres.

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