

# Case Study: Bon Secours Hospital Galway





A new digital  
radio system for  
Bons Secours  
Hospital ensuring  
24/7/365 system  
security and  
availability.



## Introduction

Bon Secours Galway is a private hospital that provides care to over 6,000 in-patients and 12,000 day cases each year. The hospital has undergone significant development in recent years with expansion of the main hospital and the development of a new state-of-the-art Interventional Cardiology Suite.

## The Challenge

After providing over 20-years' service the hospital's KENWOOD two-channel FM Analogue system was starting to show its age and was now obsolete. With a growing demand for extra radios, increased site coverage of the hospital estate and protection against the growing threat of cyber attacks on hospitals, the hospital's management wanted to ensure that the new radio system would offer resilience and availability under all operational conditions, including in emergency situations where GSM and IP services may be rendered inoperable.

## The Solution

Having established the hospital's current and future requirements, Colin Connolly, the hospital's Facilities Manager reached out to Critico. After exploring various options, Critico recommended upgrading the current radio systems using NEXEDGE NXDN technology where its true Narrow-band channel spacing and inherently lower Bit Error Rate would increase range by up to 15% and improve audio clarity over a 30% wider coverage area compared to older analogue technology.







## Benefits

The new Kenwood radio system installed by Critico realised a number of benefits for the hospital:

### Multi-protocol flexibility:

This allows the system to be quickly adapted and tailored both around a customer's needs as well as the site's conditions to optimise performance.

### Increased Range:

The new Kenwood NEXEDGE NXDN technology increased range by up to 15% with fewer repeaters needed. Improved site coverage was noticeable both indoors and outdoors.

### Improved Audio:

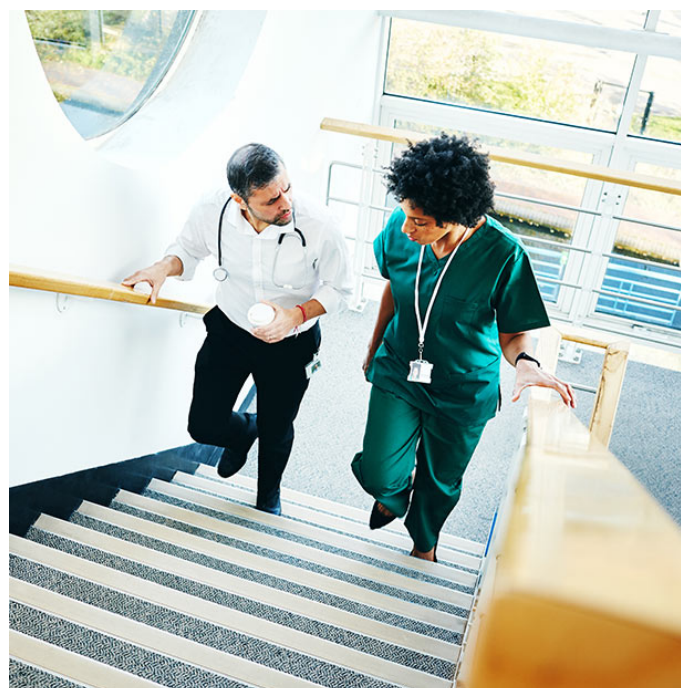
Audio clarity was improved, with over 30% wider coverage area when compared to the older analogue technology.

### Flexibility:

The system is flexible and can accommodate additional back-to-back channels as and when required.

## Final Thoughts

Colin Connolly of Bon Secours Hospital Galway concluded: "The upgrade from our older radios to the new KENWOOD system was hassle-free and the team at Critico did a great job in helping make the transition quick and easy. The engineers were very helpful in configuring the system, programming the devices and showing us how to get the best from the radios and system - we're delighted, and certain the new NEXEDGE NXDN system will be able to grow and flex around our needs well into the future."



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