

## Case Study

# Ocado Ltd

## Multi-Site Two-Way Radio Systems



### Project Summary

Design, supply and install a Two-Way Radio System throughout Ocado's entire Customer Fulfillment Centres (CFC)

### Market

Warehouse & Logistics

### Locations

1. Hatfield, Hertfordshire
2. Dordon, Warwickshire
3. Andover, Hampshire
4. Erith, Kent



### The Client

Ocado was established in the UK over 16 years ago and are the world's largest dedicated online grocery retailer with over 580,000 active customers shopping with them today. They have developed a unique end-to-end operating solution for online grocery. Ocado have the ability to deliver to 72% of UK households.

### The Challenge

Working to a specific brief per site to provide a robust Two-Way Radio system that will guarantee 100% site wide coverage on all four sites. The site locations each with up to 35 acres of land and Customer Fulfillment Centres (CFC) of up to 563,000 sq. ft.

Deliver a solution whereby approximately 100 radios users across multiple user groups (departments) per site can communicate successfully through a Two-Way Radio system. Inter-site connectivity was also required

### The Solution

We designed a Distributed Antenna System (DAS) for each site with an array of internal and external Antennae to suit the environments they were installed within. Up to 40 Antennae were installed per site and were connected by up to 2500M of RF cabling throughout each site.

The DAS was connected to a Combiner system using Motorola MTR3000 or SLR8000 Digital Repeater Base Units with a Capacity Plus System operating per site to manage multiple user groups, also we installed a Linked Capacity Plus system for inter-site connectivity to allow selected radio users to communicate between sites over the radio system.

Approximately 100 Motorola Digital DP4400 Radios were provided per site and all were programmed with multiple user groups.

Site wide coverage was achieved per site based upon our complex design.

We worked with various Principle Contractors and associated project teams per site to achieve a successful installation.